

JOINT INTEROPERABILITY ENGINEERING ORGANIZATION

Software Version Description SVD 2-96

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SOFTWARE VERSION DESCRIPTION

FOR THE

GLOBAL STATUS OF RESOURCES AND TRAINING SYSTEM (GSORTS)

(VERSION 2.0)

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ABSTRACT

This Software Version Description (SVD) identifies and describes Version 2.0 of the Global Status of Resources and Training System (GSORTS).

The SVD is divided into four major areas of discussion. These areas cover: inventory of released materials (Section 3.1) and software contents (Section 3.2), changes installed with this release (Section 3.3), and possible problems and known errors (Section 3.7).

SECTION 1. SCOPE

The following sections define the scope of the Software Version Description (SVD) by identifying the system and the segments that comprise it, discussing the system's purpose and presenting an introduction to the rest of the document.

1.1 Identification

This SVD describes Version 2.0 of the Global Status of Resources and Training System (GSORTS). GSORTS has five associated segments available for field installation:

- a. Graphical User Interface (GSORTS)
- b. SORTS Database (GORA)
- c. Database Update (GUPD)
- d. Mapping Display (GWORLD)
- e. Client Graphical User Interface (GSORTSC).

1.2 System Overview

The Status of Resources and Training System (SORTS) is an information management system within the Department of Defense (DoD). SORTS provides the National Command Authorities (NCA) and the Joint Staff with authoritative information on the identification, location, resources, and readiness of U.S. Armed Forces units. It is the single system that provides unit monitoring information to the National Military Command System (NMCS). SORTS provides information to the Joint Staff and combatant commands necessary for the command and control of U.S. military units in all operational environments.

GSORTS is a mission application of the Global Command and Control System (GCCS) that provides access to SORTS data. The GSORTS application provides a highly flexible system architecture that allows for fast, effective data updates but minimizes contentions for system resources. Within this architecture, individual software components are distributed--thus removing the resource bottlenecks and inflexible design found in the older Worldwide Military Command and Control System (WWMCCS) mainframe-based system.

In addition, there are powerful and effective software applications allowing ease of data entry, while providing complete and accurate validation capabilities. The end result is a more responsive system which enhances the utility of the data contained within the SORTS database.

1.3 Document Overview

This SVD identifies and describes GSORTS Version 2.0 and it will be used to release, track, and control that software version.

SECTION 2. REFERENCED DOCUMENTS

The following references were used in preparation of this SVD:

- a. Chairman of the Joint Chiefs of Staff (CJCS), Release Procedures for Joint Staff and Joint Papers and Information, CJCS Instruction (CJCSI) 5714.01, Washington, DC, 29 Apr 94
- b. CJCS, Status of Resources and Training System (SORTS), Memorandum of Policy (MOP) 11, Washington, DC, 16 Mar 90; Change 1, 24 Dec 92
- c. Defense Systems Support Organization (DSSO), Documentation Standards and Publications Style Manual, Procedures Manual (PM) 1-91, Washington, DC, 1 Jun 91
- d. DSSO, Procedures and Guidelines for Software Testing, Procedures Manual (PM) 5-91, Washington, DC, 1 Oct 91 (draft)
- e. DSSO, Standards and Procedures for Software Projects, Procedures Manual (PM) 2-92, Washington, DC, 27 Feb 92
- f. DSSO, SORTS Administrator Guide, Technical Memorandum (TM) 419-92, Washington, DC, 1 Oct 92; Change 1, 4 Nov 92; Change 2, 5 Aug 94
- g. DSSO, Status of Resources and Training System (SORTS) Version 6.0 Database Specification, Database Specification (DS) 1-92, Washington, DC, 18 Sep 92; Change 1, 15 Sep 94; Change 2, 30 Jun 95
- h. Department of Defense (DoD), Defense System Software Quality Program, Department of Defense Standard DoD-STD-2168, Washington, DC, 29 Apr 88
- i. Jet Propulsion Laboratory (JPL), GCCS Automated Message Handling System Application Programming Interface, JPL D-12731, Pasadena, CA, 11 Jul 95 (preliminary draft)
- j. Joint Data Systems Support Center (JDSSC), Status of Resources and Training (SORTS) Modernization, Functional Description (FD), Washington, DC, 15 May 88 (draft)

- k. JDSSC, System Design Document for the Status of Resources and Training System (SORTS) Modernization, System/Segment Design Document (SSDD) 1-90, Washington, DC, 7 Dec 90 (unpublished)
- l. Joint Interoperability Engineering Organization (JIEO), Common Warfighting Symbolology, Version 1, Military Standard MIL-STD-2525, Reston, VA, 30 Sep 94
- m. JIEO, GCCS Common Operating Environment Baseline, Sterling, VA, 28 Nov 94
- n. JIEO, Global Command and Control System Integration Standard, Version 1.0, Sterling, VA, 26 Oct 94
- o. JIEO, Global Status of Resources and Training System (GSORTS) Version 1.0 User's Guide, Sterling, VA, 19 Aug 94; Change 1, 30 Jun 95
- p. JIEO, Joint User Handbook for Message Text Formats (JUH-MTF), Revision 5.2, JIEO Handbook (JIEOH) 9000, Sterling, VA, 1 Oct 92
- q. JIEO, Release Plan for the Global Status of Resources and Training System (GSORTS), Version 2.0, Release Plan (RP) 1-95, Washington, DC, 25 Aug 95
- r. JIEO, Software Product Specification for the Status of Resources and Training System (SORTS), Software Product Specification (SPS) 3-96, Washington, DC, 10 Apr 96
- s. JIEO, Software Requirements Specification for the Status of Resources and Training System (SORTS), Software Requirements Specification (SRS) 1-96, Washington, DC, 26 Feb 96
- t. JIEO, Software Test Description for the Status of Resources and Training System (SORTS), Volumes I-IV, Software Test Description (STD) 1-95, Washington, DC, 29 Sep 95 (draft)
- u. JIEO, Software Test Plan for the Global Status of Resources and Training System (GSORTS), Software Test Plan (STP) 1-95, Washington, DC, 2 Aug 95

- v. JIEO, User Interface Specifications for the Global Command and Control System (GCCS), Version 1.0, Sterling, VA, Oct 94 (draft)
- w. Joint Information Service Center (JISC), Computer System Operator's Manual for the Status of Resources and Training System, Computer System Operator's Manual (CSOM) 1-94, Washington, DC, 19 Aug 94; Change 1, 30 Jun 95
- x. JISC, Crisis Management ADP System (CMAS) and Global Status of Training and Resources System (GSORTS) Data Connection Implementation Plan, Washington, DC, 16 Dec 93 (unpublished)
- y. JISC, Project Metrics Handbook, Procedures Manual (PM) 4-94, Washington, DC, 17 Aug 94
- z. JISC, Project Status Reports and Reviews Handbook, Procedures Manual (PM) 86-94, Washington, DC, 28 May 94
- aa. JISC, SORTS/GSORTS Software Standards and Procedures Manual, Technical Memorandum (TM) 446-94, Washington, DC, 23 Sep 94
- ab. Joint Staff (JS), Joint Reporting Structure Status of Resources and Training System (SORTS), Joint Publication (PUB) 1-03.3, Washington, DC, 10 Aug 93
- ac. JS, U.S. Message Text Formatting Program, Joint Publication (PUB) 6-04.20, Washington, DC, 1 Oct 92
- ad. Office of the Assistant Secretary of Defense Command, Control, Communications, and Intelligence (ASD(C³I)), Data Element Standardization Procedures, Department of Defense (DoD) Manual 8320.1-M-1, Washington, DC, Jan 93
- ae. Office of the Secretary of Defense (OSD), Configuration Management, Military Standard MIL-STD-973, Washington, DC, 17 Apr 92, Change 1, 1 Dec 92
- af. United States Air Force (USAF), Engineering Management, Military Standard MIL-STD-499A, Washington, DC, 1 May 74

- ag. USAF, Military Standard Diskette Message File Formats for Defense Messaging, Military Standard MIL-STD-1832, Scott AFB, IL, 15 Mar 91
- ah. USAF, Specification Practices, Military Standard MIL-STD-490A, Washington, DC, 4 Jun 85
- ai. USAF, Technical Reviews and Audits for Systems, Equipments, and Computer Software, Military Standard MIL-STD-1521B, Washington, DC, 5 Jun 85; Change 1, 19 Dec 85; Change 2, 17 Jul 92
- aj. United States Navy (USN), Software Development and Documentation, Military Standard MIL-STD-498, Alexandria, VA, 5 Dec 94
- ak. USN, Software Version Description, Data Item Description (DID) DI-IPSC-81442, Alexandria, VA, 5 Dec 94.

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SECTION 3. VERSION DESCRIPTION

This section describes the composition of GSORTS Version 2.0. The following sections provide an inventory of released materials as well as the contents of the system, describe any applicable installed changes, identify adaptation data, indicate interface compatibility, provide a bibliography of reference documents, and list both possible and known errors relative to this system.

3.1 Inventory of Materials Released

This section lists the physical media and documentation comprising GSORTS Version 2.0. Because each segment is being released simultaneously with other segments constituting GSORTS Version 2.0, separate physical media are not being used for the distribution of each segment. Rather, the media described herein contain files and documentation pertaining to the entire GSORTS system release.

3.1.1 Media. The physical media that comprise this version include:

- a. Two copies of the system release in tape cartridge Unix **tar** format (8mm tape) that may be loaded and executed on a Sun platform in the Solaris 2.3 environment. The tape includes executable code, installation scripts, example data and files, as well as all corollary files needed to execute the release.
- b. Written descriptions that detail the storage resources required to install the executable files on a Sun platform, the storage resources and other resources required to load and run the executable files.

3.1.2 Documentation. In addition to this SVD, the associated documentation that comprises this version includes:

- a. JIEO, Software Product Specification for the Status of Resources and Training System (SORTS), SPS 3-96, 10 Apr 96
- b. JIEO, Global Status of Resources and Training System (GSORTS) Version 1.0 User's Guide, 19 Aug 94; Change 1, 30 Jun 95.

3.2 Inventory of Software Contents

All computer files that comprise GSORTS Version 2.0 appear in Appendix B.

3.3 Changes Installed

Changes are identified by a control number, short title, and date when approved for correction by the appropriate review board. For each change listed in the sections below, any SORTS Problem Reports (PRs) corrected by the change are identified, any applicable Specification Change Notices (SCNs) are identified (by control number and date of approval), and a description of implemented change is provided.

3.3.1 Class I Changes. There were two Class I changes installed for this software release:

- a. ECP #95022, "Army and Navy Service-Unique Data" (15 Aug 95)
 - (1) Problem Reports Corrected - ER #930001, 940008
 - (2) Applicable Change Notices - SCN-04 (23 Aug 95)
 - (3) Change Implemented - The requirement addressed by the ECP was to bring all Army and Navy Service-unique data and their accompanying edits into the Joint database. For this software release, Phase I was completed which resulted in the creation of all required database tables and elements (schema).
- b. ECP #95037, "SORTS Data Element Scrub" (4 Oct 95)
 - (1) Problem Reports Corrected - Not applicable; change directed via J38 Memo, "SORTS Data Element Scrub," 14 Sep 95
 - (2) Applicable Change Notices - SCN-07 (18 Oct 95)
 - (3) Change Implemented - Pursuant to J38's requirement, the ALTYP field was changed from mandatory to optional and the RESND field was changed from conditional to optional. Also, corresponding edits and indexes linked to these fields as well as the FLAG

field were modified accordingly to permit these fields to be used for "other purposes."

3.3.2 Class II Changes. There were 19 Class II changes installed for this software release:

- a. ECP #94045, "JOTS Migration to GCCS" (28 Dec 94)
 - (1) Problem Reports Corrected - PR #941022
 - (2) Applicable Change Notices - not applicable
 - (3) Change Implemented - Software modules used to process JOTS traffic at the Pentagon was migrated from the SunOS 4.3 environment to execute properly under Solaris 2.3 and the GCCS COE.
- b. ECP #95008, "AMHS API" (27 Sep 94)
 - (1) Problem Reports Corrected - PR #950304, 950317
 - (2) Applicable Change Notices - not applicable
 - (3) Change Implemented - SORTS modules were modified to both receive from and send AUTODIN message traffic to the GCCS Automated Message Handler System (AMHS) in preparation for the demise of NACE functionality with the WWMCCS mainframes shut-down. The resultant modules were also updated to use ACP 126 (vice JANAP 128) format.
- c. ECP #95011, "Consolidation of *ms.c* Modules" (23 Aug 95)
 - (1) Problem Reports Corrected - PR #950305
 - (2) Applicable Change Notices - not applicable
 - (3) Change Implemented - The two versions of the module *ms.c* were combined and integrated into a single module. While combining the two separate modules into one, options available (i.e., pulling out select messages, changing **SEQNO** to **OVRRD**, etc.) in the older *js.c* module that had not been carried forward into *ms.c*, were also incorporated into the resultant version.

- d. ECP #95013, "Air Force Edits/Calculations Fix" (28 Jun 95)
- (1) Problem Reports Corrected - PR #940936, 941107, 941116, 950104, 950227
 - (2) Applicable Change Notices - Not applicable
 - (3) Change Implemented -
 - (a) PR #940936 - Edits were changed in a number of modules to provide new EQREE and TRUTC percentage calculations in response to an Air Force requirement.
 - (b) PR #941107 - A large number of logical edits were changed to reflect Air Force specifications for PERTP, PERTC, TRUTC, EQSEE, EQREE, EQRED, ERSA, ESSA, and TRSA.
 - (c) PR #941116 - The *afedits.c* module was changed to allow the user to select an individual UIC (RPTOR) to process the logical edits against. The code now allows the user to specify the RPTOR, SBRPT, or unit and the specific UIC (using -ONLY XXXXXX) that the editing is to be accomplished on.
 - (d) PR #950104 - The *airforce.c* function and the *errljtab.tab* file was changed to support the valid Special Mission Capability Code (SMCC) ranges of 01-22 and 30-50 in accordance with AFI 10-201.
 - (e) PR #950227 - The incorrect error message "CPAUR MUST NOT EQUAL ZERO" that was produced when processing the AFPERDAT subset of the AFPERTNG set has been changed. The processing error resulted from CPAUR being needed for the calculation being performed (using PERTC and CPAVL). The error message has now been corrected.
- e. ECP #95015, "Full ANSI C Compliance in SORTS" (15 Aug 95)
- (1) Problem Reports Corrected - PR #941015, 950307, 951006, 951008

(2) Applicable Change Notices - Not applicable

(3) Change Implemented -

(a) PR #941015 - A large number of null pointers, uninitialized variables, array bounds violations, and memory management errors were corrected.

(b) PR #950307 - All source code within the SORTS V6 application has been modified to be fully compliant with the ANSI/ISO Standards for the C programming language. A total of 3,935 warnings were cleaned up in 1,312 separate functions (mostly null pointers, un-initialized variables, and unused variables/functions). Additionally, all SORTS functions have been modified to be well-structured modules that significantly enhance modifiability and future maintainability.

(c) PR #951006 - The *build_mtf* module was corrected to produce messages of only the required 69 character length (some of 71 characters were sometimes produced).

(d) PR #951008 - Same fix as for PR #951006 above.

f. ECP #95016, "Hard-Coded Printing Paths" (28 Jun 95)

(1) Problem Reports Corrected - PR #950319, 950508

(2) Applicable Change Notices - Not applicable

(3) Change Implemented - A total of 3 files were modified under the *h/GSORTS/data/app-defaults* directory (*XGlobalCCS*, *XGeneralIQS*, and *Xedit*) to use the printer name that the user enters in the GSORTS map/retrieval application and to use the NeWSprint product in the GCCS COE to format the output. Additionally, the *Creation.c* and *gigs.c* modules were modified to create the necessary popup windows to permit users to type in the name of the printer they choose to use for output.

g. ECP #95017, "DTG Limits for Processing" (28 Jun 95)

(1) Problem Reports Corrected - PR #941117, CCB #003

- (2) Applicable Change Notices - Not applicable
 - (3) Change Implemented - The *Userfunc.c* module was modified to insure that the date-time-groups (DTGs) of submitted SORTS transactions are checked and processed only if they are within 30 calendar days before or after the current date (a 60 day processing window). All transactions that fail that check will be sent to the error queue and a notification message will be sent out stating "Date out of range in DTG field."
- h. ECP #95027, "Keyboard Mapping Errors" (23 Aug 95)
- (1) Problem Reports Corrected - PR #950514, 950521, 950522, 950602
 - (2) Applicable Change Notices - Not applicable
 - (3) Change Implemented - The software was re-compiled using the older Motif (Version 1.2.2) libraries that exist in the GCCS COE. As a result, all noted keyboard definition errors vanished.
- i. ECP #95028, "RAMP/Distribution Errors" (26 Jul 95)
- (1) Problem Reports Corrected - PR #941207, 950403, 950543
 - (2) Applicable Change Notices - Not applicable
 - (3) Change Implemented -
 - (a) PR #941207 - PACAF reported that the *sb21* module did not produce a database review for a SORTS distribution copy--only for local reports. Analysis indicated that the problem was caused by executing the *sb21* module at an incorrect time during the update process. The problem was solved by changing the *sortsupd* module to insure that *sb21* is executed during the DISTRIBUTION COPY message portion of the update process.
 - (b) PR #950403 - The reported error involved the distribution of "erroneous" REMARKS data in specific situations linked to whenever an ADD

LABEL set is encountered with no GENTEXT remarks.
The error was corrected in the *blddistr* module.

- (c) PR #950543 - The *RAMP* module was changed to produce a correct AUTODIN trailer as the "end-of-message":

```
DECL line
BT
#xxxx (where 'xxxx' is station serial number)
AUTODIN trailer
```

- j. ECP #95029, "CD Will Not Eject" (15 Aug 95)
- (1) Problem Reports Corrected - PR #950507
 - (2) Applicable Change Notices - Not applicable
 - (3) Change Implemented - The *AdrgKit.c* module was modified to make the correct system (Solaris) call to unmount the CD when the user made the proper menu selection in GSORTS (***AdrgMaps > Release ADRG Map***).
- k. ECP #95030, "Non-Flying Units Incorrectly Edited" (15 Aug 95)
- (1) Problem Reports Corrected - PR #950410
 - (2) Applicable Change Notices - not applicable
 - (3) Change Implemented - The module *eqsohdat.c* and *errljtab.tab* were modified to change the wording of the error when the error is caused by editing input data against existing data in the database (logical edit).
- l. ECP #95031, "FORECAST/CATLIMIT Sets Error" (23 Aug 95)
- (1) Problem Reports Corrected - PR #950202
 - (2) Applicable Change Notices - not applicable
 - (3) Change Implemented - The *sb50mtf.c* module was modified to correct the CATLIMIT and FORECAST Sets for the occurrence of a blank. The *airforce.c* module was modified to correct the SUBCATLM and SUBFCAST

Sets for the occurrence of a blank. A new error message (#410) was created to properly report errors in these four sets.

m. ECP #95033, "GIQS Fails to Create *sorts.out* File" (23 Aug 95)

- (1) Problem Reports Corrected - PR #950601
- (2) Applicable Change Notices - Not applicable
- (3) Change Implemented - The *BuildQuery.c* module (used in both batch and interactive mode) was corrected to load the proper path of the user's input query in the interactive mode. The corrected logic now provides the required printer output functionality that failed to work properly interactively.

n. ECP #95034, "Mapping Processing Errors" (4 Oct 95)

- (1) Problem Reports Corrected - PR #940922, 941003, 950327
- (2) Applicable Change Notices - Not applicable
- (3) Change Implemented -
 - (a) PR #940922 - The reported problem noted that when in GSORTS mapping software (Query Menu), any option selected results in the user observing a flash command shell that then disappears before its contents can be read. The problem exists only at GSORTS Proof-of-Concept sites that have not yet upgraded to Oracle 7 and GCCS V2.1.
 - (b) PR #941003 - The reported problem of retrieving incorrect unit records (for display) with mouse selected icons under the GSORTS mapping software has been corrected.
 - (c) PR #950327 - The reported problem of being unable to read selected CD-ROM maps in GSORTS exists only in Solaris 2.3 and is caused by using CD-ROMs dated prior to Dec 89. These older CD-ROMs are not ISO-9660 compliant and Sun didn't code for the proper error handler until Solaris 2.4.

- o. ECP #95036, "GCCS Segmentation Corrections" (20 Sep 95)
 - (1) Problem Reports Corrected - PR #950706
 - (2) Applicable Change Notices - Not applicable
 - (3) Change Implemented - This change accomplishes two important items: 1) a large number of warnings (not errors) generated whenever GSORTS segments are verified for GCCS COE compliance were cleaned up and 2) GSORTS will now be launched from a single icon in GCCS (vice the separate GIQS and GSORTS icons fielded previously). The *GIQS* module has become a menu selection within the GSORTS map engine with this release.

- p. ECP #95039, "GSORTS Client Segment Problems" (3 Nov 95)
 - (1) Problem Reports Corrected - PR #950408, 950517, 950541, 950542, 950804, 950805, 950807, 951007
 - (2) Applicable Change Notices - Not applicable
 - (3) Change Implemented -
 - (a) PR #950408 - Site-specific problem that could not be duplicated on a client workstation at the NMCC or the DISA SORTS Office but was likely corrected in the GSORTS 1.2 release.
 - (b) PR #950517 - Site-specific problem that could not be duplicated on a client workstation at the NMCC or the DISA SORTS Office.
 - (c) PR #950541 - Site-specific problem that could not be duplicated on a client workstation at the NMCC or the DISA SORTS Office.
 - (d) PR #950542 - Site-specific problem that could not be duplicated on a client workstation at the NMCC or the DISA SORTS Office.
 - (e) PR #950804 - The permission on the *GSORTSC_run_GSORTS* script were corrected.

- (f) PR #950805 - Since ECP #95036 (Item o. above) modified GSORTS so that it will now be launched from a single icon in GCCS (vice the separate GIQS and GSORTS icons fielded previously), this reported problem was also corrected.
- (g) PR #950807 - The *GSORTSC_run_GSORTS* script was modified to permit users without **xterm** to execute the GSORTS client in the remote shell.
- (h) PR #951007 - The missing contents of the */bitmap* directory were added in.

q. ECP #96001, "Readiness Processing Errors" (8 Feb 96)

- (1) Problem Reports Corrected - PR #950803, 960103, 960205, 960307; J38 Memo, "SORTS Requirements," 12 Jan 96
- (2) Applicable Change Notices - Not applicable
- (3) Change Implemented - Pursuant to J38's requirement, the editing software was corrected to update the **RICDA**, **RICDF**, and **PICDA** fields when the **VALID** option is used. The edits for processing a subjective upgrade to the **READY** Set where a 'Z' is used were also corrected to accept this valid entry.
 - (a) PR #950803 - **3SPECAP** will no longer place a trailing slash "/" on the header and detail lines.
 - (b) PR #960103 - Edits for the *rec210.pc*, *rec211.pc*, and *rec212.pc* modules were corrected to insure that the **PICDA**, **RICDA**, and **RICDF** data elements reflect the correct date. The *overall.c* module was changed in the **REASN** validation processes for legal **CARAT** values. The *errljtab.tab* file was changed to reflect the corrected error message.
 - (c) PR #960205 - **AFPERDAT** Set will no longer place triple slashes "/" at end of the set.
 - (d) PR #960307 - **REMARKS** will no longer add blank lines on the end of the GENTXT RMK line and the

triple slashes "/" at end of some GENTXT RMK lines were also corrected.

r. ECP #96003, "ULC Processing on Sun Platforms" (15 Mar 96)

- (1) Problem Reports Corrected - PR #940947, 950809, 950904, 950905, 960201
- (2) Applicable Change Notices - Not applicable
- (3) Change Implemented -
 - (a) PR #940947 - The correct ULC data file was loaded into the proper directory on the SORTS Master Processor (at the Pentagon) and the database was re-loaded with the corrected version. The incorrect data files were deleted from the version control system used by the DISA SORTS Office to prevent the re-occurrence of this error.
 - (b) PR #950809 - Outdated **DOCID** data and control files were deleted from both the SORTS Master Processor (at the Pentagon) and from the version control system used by the DISA SORTS Office to prevent the possibility of accidentally loading (or re-loading) the **DOCID** Table in the database with invalid/incomplete data.
 - (c) PR #950904 - The script *new_gsorts_user* (in the **GORA** segment) was modified to correct an error regarding **cs** usage during installation.
 - (d) PR #950905 - See change for (c) above.
 - (e) PR #960201 - The /xsm directory was released under the **GSORTS** segment so that users on the Application Server could access and utilize the FRAS module ported from the WWMCCS mainframe SORTS application.

s. ECP #96007, "PARSEMTF/RAMP Corrections" (6 Mar 96)

- (1) Problem Reports Corrected - PR #960101, 960102, 960203
- (2) Applicable Change Notices - Not applicable
- (3) Change Implemented -
 - (a) PR #960101 - The *parsemtf.c* module was changed to accept the new ACP 126 style message header (in addition to the older JANAP 128 style). This change permits the SORTS processing modules to correctly interface with the GCCS AMHS Server at the NMCC.
 - (b) PR #960102 - Same changes for item (a) as well an additional modification to prevent duplicate trailer lines.
 - (c) PR #960203 - The *ramp.c* module was changed to support the newer language media format (LMF)-- from 'CT' to 'AT'.

3.4 Adaptation Data

There are no unique-to-site data contained in the items being delivered in this version of GSORTS.

3.5 Related Documents

Other documents pertinent to this version of GSORTS that are not being released are:

- a. Software Development Folders (SDFs) with applicable programmer notes
- b. Regression test cases.

3.6 Installation Instructions

The steps required to install this software release are as follows:

- a. Load the 8 mm software release tape
- b. Type "**cd /h/TOOLS/progs**"

- c. Type "**SAInstaller**"
- d. Select "**read toc**"
 - (1) Under the Table of Contents" select (by highlighting) the **GORA** and **GUPD** segments (to be installed in the Sun 1000 server).
 - (2) Then, select the **GWORLD** segment and either the **GSORTS** (standard SPARC 10 or 20) or **GSORTSC** (for a SPARC 5 or space-limited SPARC 20) segment to be installed on the application server.
- e. When the tape header appears, highlight it, and select "**Install**" the segments that were selected.
- f. Lastly, select and carefully read "Release Notes" for valuable information pertinent to the individual GSORTS user.

3.7 Possible Problems and Known Errors

The following sections provide a break-out of the 112 problems and known errors associated with this software release by priority level.

3.7.1 Priority 1. The following 2 problems and known errors will prevent the accomplishment of an operational or mission essential capability:

- a. PR #950320 - The functionality of SORTS 5.2 to permit local update and maintenance of a subset of the read-only Joint database was not carried forward into the GSORTS design and development. Now, a number of sites that maintain such local databases are in imminent danger of losing that critical functionality when SORTS 5.2 on the mainframe is killed.
- b. PR #960302 - ACC reports that sorting units by Component (active, guard, reserve) has proved to be impossible with GIQS. This is a MUST HAVE capability. The interest fields may be helpful if we could make an "OR" statement work.

3.7.2 Priority 2. The following 33 problems and known errors will adversely affect the accomplishment of an operational or

mission essential capability and no work-around solutions are available:

- a. BETA #079 - Decide on one user interface for performing tasks. Presently, the SORTS Manager uses arrow key menu picks, the SCP uses function keys, and SIQS uses X-Window mouse clicks.
- b. DBETA #019 - A validity check and database clean-up of this nature is needed to ensure the quality of the database. The same validity checks should be performed for GEO and TUCHA values.
- c. DR #930179 - Observation that it was difficult to do quality assurance using simple database SQL queries, such as displaying all the units whose RPTOR is not their MJCOM. The problem was that the major command's database contained approximately 2,000 units, only 390 of which are "owned" by the MJCOM. What is needed is the ability for a site to define what their own view is of the database. Using this view, they can then retrieve against it to work on their own units' data - without seeing all the other data on units that the command only has an interest in, or is involved in an OPLAN with the unit. On nearly all of the retrievals done to check various relationships among database fields, most of the units displayed were not owned by the site.
- d. DR #930243 - Having a rotation function would be good for getting optimal views of certain areas. If an island is aligned northeast to southwest, being able to rotate the view would allow the user to get the best of the entire island.
- e. PR #940941 - The data delete character needs to be coded in the ERSA, ESSA, and TRSA fields for ease of deleting data in these fields. Currently, a zero ("0") has to be reported as a way of reporting this field "Has been deleted." Enabling this reporting will ensure that percentage for equipment condition, equipment supplies on-hand, and training will not be calculated wrong.
- f. PR #941118 - The SCP does not accept the LABELID set when reported as part of an AFSPECAP set. The message "SORTS_IN LINE/BLOCK NOT FOUND AMPN:@DECL@@E" is generated. The following sets were presented in this

order: AFSPECAP, 3SPECAP, GRADCAP, LABELID. All sets appeared to be formatted correctly.

- g. PR #950206 - The *errmtf.c* file needs to be modified to handle "true" duplicate messages that come in thru *vldmtf.trn* and/or *vldmtf.sav* (input to error report creation). The first error produces a message number, UIC set, key set, error set, and error message (which is correct); but the next occurrence(s) of the duplicate transaction in error produces only an error message with the new message number (no key set, UIC set, or error set is produced). The transactional information (UIC set, key set, and error set) needs to be provided with the error message.
- h. PR #950302 - The print capability in the SCP has been lost. The code was not in the version of the SCP that was converted to Solaris 2.3. The print capability is needed in order to view the files outside of the SCP. The internal file format of the SCP does not allow printing of messages, queues, filters, etc. outside of the SCP.
- i. PR #950314 - GSORTS mapping capabilities are not adequate for NMCC (ADPLO) support needs (reference J36 Memorandum, same subject, 9 Feb 95).
- j. PR #950409 - GSORTS freezes on PC when mouse is clicked too quickly. When an item is selected from the GSORTS top menu bar, and then another item is selected before the first has a chance to be displayed, then the PC freezes and no keyboard or mouse entry is possible. The user must either: a) reboot the PC or 2) contact the System Administrator who can "kill" the locked GSORTS process. This frees up the PC and returns it to the Desktop Launch Window. This is not a problem with GCCS V1.1.0.
- k. PR #950511 - UNACCESSIBLE FILES-When the GSORTS V1.1 was installed the default path for storing the questions created by J32 was established as:
s/j32gccs/scripts/gsortsdata/filt-sel-gst. GSORTS V1.0 default path was: *world/selection/newgsorts*. This makes all previously developed questions unreadable. This seems to follow a decision to place each user's questions under his own individual path. This has its valid

points; however, it prevents sharing of questions between the user and his technical support personnel.

- l. PR #950519 - POLYLINE REMAINS ON AFTER DEACTIVATED-An active overlay was deactivated. The user then went to Map Regions to make an overlay and the polyline was still on.
- m. PR #950540 - RETRIEVE DATABASE SELECT FROM SITUATION PANEL WILL DESELECT-When the operator makes a selection from the "Situation Panel" and performs a right-hand mouse button select in order to select either "Retrieve Database" and/or "Readiness," the system will disallow any of these selections and deactivate the buttons.
- n. PR #950546 - Deletion of REMARKS data when the parent OVERALL set is deleted seems to be leaving the REMARKS data, while deleting the OVERALL set. The following needs to be looked at: 1) Proper deletion of 'all' REMARKS data associated with an OVERALL set when the parent set is deleted; and 2) Replacing an existing REMARK with an incoming REMARK having the same key (UIC, RLT, SEC_ON, and LABEL fields). There could be a problem when a "replace" add LABEL set is actually generating a "new" REMARKS entry in the GSORTS database.
- o. PR #950609 - *jopesupd.c* is not correctly providing the OVERALL set data for Air Force and Coast Guard units. The software needs to look at *ld_uic_211* vice *ld_uic_101* for the Air Force check ('F') and add a check for *ovall='NAVAL'* to get Coast Guard data when the unit has a NAVAL mission.
- p. PR #950705 - Implementation of the range of dates for the JOPES "pull" to feed the UI File caused the capability of preparing delete transactions to be lost. The software uses the BUPDATE to create transactions for the UI File and since there is no BUPDATE for a deleted unit, no units will be deleted from the UI File.
- q. PR #950906 - *blddistr* aborted with a segmentation error when processing the update of 11 Sep 95. This was the evening update and the error occurred while processing M20360 report 105.

- r. PR #951003 - The *load_ports* script does not extract all of the information from the datafile. The extraction criteria in the script was calling for only the information in the datafile that is **Unclassified**. That is the reason why 92 ports, 116 harbors, and 3,316 wharves were selected.
- s. PR #951004 - The forms mode access to the UICCOM File on the Sun 690 is not functional. Currently require using the forms mode on the WWS to enter new units into the UICCOM File.
- t. PR #951005 - Changes to the UICCOM File are posted to multiple files. If posted to the wrong one, changes are not effective. Require clarification and simplification of procedures.
- u. PR #951009 - Require software changes to facilitate AGCCS reporting from HQDA and the Major Command levels. The short term goal is completion of the AGCCS connectivity test. The long term goal is continuity of HQDA and USA Major Command reporting. Information on AGCCS use of the AMHS will be provided. FTP would be used as well.
- v. PR #951102 - SHIPLOCN records are being rejected with the message "ACTIV - THIS FIELD IS EITHER INVALID OR MISSING" when the ACTIV field is not reported. ACTIV was not mandatory in SORTS 5.2 and there is no reason why it should be so in SORTS 6.0. Also, there is no ACTIV data element in the SHIPLOCN record in the database--it is in the ORGLOCN record and can be input directly via an ORGLOCN set. Recommend the error message be changed to a warning message, or be eliminated entirely.
- w. PR #951201 - USACOM reports that when data is retrieved from the NOCEAN table of the database, the first letter does not show.
- x. PR #951202 - While processing data through the SCP, the status never returned from a busy state. After investigating the problem, it was determined that the MPF process was defunct.
- y. PR #960204 - Software used to support SORTS and GSORTS on the Sun platforms and the WWS does not correctly handle dates for the year 2000 and beyond.

- z. PR #960301 - ACC reports that sorting units by MAJCOM is difficult, but not impossible. Very few functional users know how to do this though. To make this function more obvious to the users, the various MAJCOMs should be listed in the "Unit Criteria" window right under "All Air Force Units."
- aa. PR #960303 - ACC reports that a more complex method of sorting the query output in GIQS is needed--ordering the query by the first column is insufficient. The capability to sort the output by multiple factors (e.g., first by UTC, then by ANAME, then by MAJCOM/ Component etc.). Also, being able to sort and re-sort the query output would be most helpful.
- ab. PR #960304 - ACC reports that the menu appearing under "Unit Criteria" in GIQS should be set up to mirror the DOC ID table or unit types. Many unit types are missing from the current list. Aircraft types do not match the current Air Force structure (e.g., Tactical Fighter Squadrons and Fighter Interceptor Squadrons are no longer valid).
- ac. PR #960305 - ACC reports that a robust printing capability is needed for GIQS. Once a query or report is run, the capability to print the entire report for all of the units pulled by the query is needed. Ideally, all of the unit's types would be set up as batch jobs and run sequentially, preferably without constant human intervention.
- ad. PR #960306 - HQAF reports that the update software (*sb50mtf*) does not physically delete AFPERTNG, AFEQUIP, and AFSPECAP Air Force unique data sets. The data fields are erased but the records are never removed from the database.
- ae. PR #960308 - The **ATTACH** field is being corrupted by some piece of code. The evidence is found in the *ramp* directory as .txn files for UICs such as 07 .txn, 070QAA.txn, 07BSD0.txn, and so on.
- af. PR #960311 - POSTATAK is being eliminated from distribution by pre-ramp. POSTATAK during update processing generates *uic.txn* files for interested UICs in

format "###S POSTATAK..." The POSTATAK Set is eliminated during pre-ramp processing from the *uic.txn* file.

- ag. PR #960312 - POSTATAK is not recognized by RAMP processing. Sent a *uic.txn* file with format "###S POSTATAK..." into RAMP. Message received was "# of MESSAGES CREATED = 0".

3.7.3 Priority 3. The following 53 problems and known errors will adversely affect the accomplishment of an operational or mission essential capability but work-around solutions are available:

- a. BETA #038 - Need better error message than "INVALID DATE IN HEADER". Say "DATE IN HEADER IS LATER THAN MACSORTS 15:34 SYSTEM TIME OF UPDATE. NONE OF RPT #098 PROCESSED." This way, the error message tells what system name the report was being processed on, what time the system was processing it, and what happens as a result--the entire report is not processed. In a way, the error report can be seen as a debugging statement that ought to show what data was in the system that caused the error.
- b. DBETA #013 - Need a database comparison and synchronization utility to determine difference between two databases, present these differences in a meaningful way to the functional and technical community.
- c. DR #930176 - The SCP incoming event log was useful in resubmitting reports that were accidentally deleted out of the error queue. However, there is no indication in the SCP log of messages received which message is which report. In order to resubmit a report from the SCP event log, the operator is required to look at every entry in the log to see what report it is in.
- d. DR #930241 - The map should open to the size of the window as a default. The default map size now goes about 2 inches beyond the right of the window. The map should have scroll bars to scroll up and down. The only alternative now is to zoom out and zoom back in somewhere else if you want more detail. Zoom function only works when caps lock is turned off.

- e. DR #940001 - In SIQS, sequencing the desired selection field the way you want is not always possible or is tricky, at best. An example is when setting up a selection for airfields. I want the name first. To do this, I must use the GEO-related table first to get name, lat, long, etc., but then to get runway length or other airport information, I can't use them off the main table. I have to go thru Airports-related table. Otherwise, anything I choose will appear before the information I've selected from the GEO table.
- f. DR #940007 - No temporary mapping capability exists which would allow the user to pull up either situation by a service (which has pulled all the data for that service), then filter that question further for a quick temporary display of information upon the map. Instead, the user must build a permanent filter, save the question/filter and build a button before the information can be displayed.
- g. DR #940046 - The SCP does not continue processing traffic if shutdown and then restarted. After the "fileprep" program has finished sending reports to the SCP, the SCP queue status is busy. The SCP was shutdown and then restarted with "scpstart."
- h. DR #940108 - ACC would like the "Change" BIDE set provided with the set in error for better error reconciliation. When reporting the following fields: ERSA, ESSA, and TRSA, do not process the edits where all the fields have to be present in the table for a correct edit. Not all the percentage fields have to be reported at one time for a given UTC.
- i. ER #930030 - SORTS 6.0 has a requirement to provide baseline reports for the SORTS community users. Also required is a mechanism (Report Writer Capability) for ad hoc user-developed reports. At a minimum, the required baseline reports are as found in the SORTS 5.2 Generalized Report Generator Subsystem (i.e., Status of Forces (detailed and summary), Unit Assignments (detailed and summary), and the Force Resources Assessment Subsystem). Request these reports be individually costed.

- j. ER #940012 - Provide impact for a design of PREP, RAMP, and any other subsystems to be able to receive, process, and distribute USMTF SORTSREP (AF, AR, NV, MAR).
- k. PR #940932 - The Data Description window is not a scrollable type window. This results in the possibility that some data will not be displayed.
- l. PR #940940 - The *errors.trn* file is missing the classification at the top and bottom of each page. Currently, nothing is showing but 4 stars around spaces where the classification should be. Classification should match the highest classification of the data present.
- m. PR #940942 - The SCP contains 2 tables in the SCP area called *sortsrep.txt* and *jrs.txt* that need to be disabled. Disabling these 2 tables will ensure that old data, previously processed will not get entered into the SCP.
- n. PR #941001 - AFSPECAP transaction generates the error "UNABLE TO DETERMINE SET NAME OR SET NAME OUT OF ORDER SKIPPING TO NEXT RPTDUIC OR EOM." Distribution is generated if a RPTDUIC is found in the same message but if the DECL line is found, no distribution of erroneous message will take place. Erroneous transactions should not be distributed to update another site's database, only an error to the originator.
- o. PR #941005 - POSTATAK set is producing erroneous data while being edited. Garbage is being produced in *errors.trn* on the "key set" line which produces the error "UNABLE TO RECOGNIZE SETNAME...". Other programs to be modified to accept POSTATAK data are: SBBIMTF, SBSOMTF, MS, and PREPMTF.
- p. PR #941007 - Attached "prepout.log" indicates reports with blanks in the header dates are being accepted by the SCP. This should not happen. The report should be displayed as an error.
- q. PR #941016 - Deleting SPARES set (in AFSPECAP configuration) data cannot be done. The error "ARUSD-Mandatory Field Missing" is generated. Upon entering the ARUSD data in the SPARES data out of the AFSPECAP table.

- r. PR #941017 - Change BIDE transactions on a foreign UIC are being rejected when a valid UDC code for the foreign unit is among the data elements being changed. However, REVAL is required only for U.S. units (in combination with the UDC field) and is not allowed for foreign UIC BIDE reporting. Foreign Add BIDE transactions with the same UDC setup process correctly.
- s. PR #941101 - According to both JS PUB 1-03.3 and the MTF Executive Summary, the 2 fields ARRDT and RPTOR are mandatory on the GAINING set. However, when ARRDT is not reported, no error message is generated and the DTG from the SORTUNIT header is used. If the RPTOR is not reported, no error message is generated and whatever other fields may have been reported on that transaction are accepted.
- t. PR #941103 - When a LOSING set is processed, a UIC's RPTNORG record will show an entry in GCMD and TDATE as well as the optional fields TRGEO and DEPDT if they had been reported also. When the GAINING set on the UIC is subsequently processed, the GCMD entry should be blanked out and its value moved to ATACH. Also, TDATE, TRGEO, and DEPDT should be blanked out. None of this is being done in SORTS 6.0. However, the new ARRDT, RPTOR, SBRPT, and INTR1-4 (if reported) are being posted to the database.
- u. PR #941105 - The TDATE field on the TRANSFER set is required to be moved into the ARRDT field on the RPTNORG record. The TDATE field itself on the RPTNORG record should be left blank. Currently, the TDATE on the incoming TRANSFER set is being moved directly into TDATE on the RPTNORG record and ARRDT is being left unchanged.
- v. PR #941110 - All documentation relating to GSORTS states that the PICDA field in the PERSTREN record is reported on an "Add," "Change," and "Delete" transaction. Currently, to delete a PERSTREN entry in the database, only TPERS and TEGEO are required. The code should match the documentation with PICDA required on a "Delete" transaction as PICDA is a mandatory field.
- w. PR #941111 - Documentation for preparing SORTSREP sets needs to include the following: 1) How to prepare a "Delete" transaction for any SORTSREP set and include

- what the "secondary controls" are to perform this function; 2) How to prepare a REMARKS transaction for all SORTSREP sets, showing how to "Change" and "Delete"; and the format for a REMARKS transaction (i.e., reporting the REMARKS transaction by itself or reporting the transaction after a particular set is reported in a message).
- x. PR #941201 - Include the GSORTS menu scripts as part of the X-Windows SORTS Manager (XSM), where all the functions of GSORTS (i.e., update, retransmit reports, Oracle loads, etc.) reside in one function.
 - y. PR #941205 - The ADPLO's strip 60 report is printing out incorrectly. The number of lines per page is off by 1. The problem was caused by changing from Oracle 6 to Oracle 7.
 - z. PR #941206 - RAMP produces a database review with the SORTUNIT set containing 'SEQNO' with the next report number in sequence. Have RAMP produce 'OVRRD' vice 'SEQNO' in generation of database reviews, so reviews do not go into error hold after processing the reviews out of the REVIEW queue in the SCP.
 - aa. PR #941208 - The SCP does not parse the SORTUNIT set into multiple lines. Enable the SORTUNIT set to be parsed into multiple lines, as numerous messages are being sent to Error Hold because of this instance.
 - ab. PR #950205 - An error is being incorrectly produced on a SHIPLOCN set when PRGEO is not reported and POINT has invalid coordinates. The error message generated is "POINT DATA INVALID FOR LAND CODE, GEOFILE COORDINATES USED." A check needs to be made for a null PRGEO and a warning message stating that the supplied coordinates are not in the GEOFILE for the specific land code (using GEOFILE coordinates for this occurrence) when the ship is "in port" (land code).
 - ac. PR #950222 - The SCP is allowing Air Force uniques (that follow a GENTEXT set) to bypass format checking, thus allowing the possibility that incorrectly formatted data is passed to the update process. Ensure that any Air Force unique set is properly checked by the SCP for format errors before being passed to the update process.

- ad. PR #950308 - Exact procedures and applicable software for database synchronization are required. The exact procedures need to be described and put into a script so that the procedures can be utilized as required. Procedures include which tables to drop/truncate and recreate, which command line arguments to skip the appropriate service, which argument to load the specific service, and when to reload the PLANSTATUS data,
- ae. PR #950311 - During the testing of Navy USMTF messages, a SHIPLOCN set was submitted with NDEST filled in with "JACKSONVILL". NDEST can be either an 11 or 15 character geographic coordinates or a Port Name which can be up to 20 characters in length. In this case, the software looks for a string length of 11 in NDEST and then assumes that the entry is coordinates. This is an error and should be corrected.
- af. PR #950318 - During processing of Army input transactions, the module *ms.c* aborted. The input file contained many long columnar sets. This prevents the creation of the matrix for this instance of the update and prevents the creation of the error matrix for this input file.
- ag. PR #950325 - Map Fails to Refresh and Utilize Entire Window - When GSORTS is launched from the Desktop, its map only occupies 1/2 the screen available. When operator clicks to maximize the map (upper-right button on GSORTS Window), the window will maximize but the map will not. The map remains its original size and scale, while a blank white border paints the upper and lower boundaries of the map. Reloading the map from *MAP Utilities* has no effect. Appears to replicable on GEM1 (Executive Manager) only.
- ah. PR #950404 - GSORTS Does Not Zoom Out of Lowest Level - When the operator 'rubber bands' (zooms) down to the lowest possible level in GSORTS, the system no longer allows the zoom out function (neither the CTRL-O key combination or the *Zoom Out* pulldown menu worked). The work-around is to reload the entire map.
- ai. PR #950405 - NACE traffic has to be manually extracted from the Honeywell mainframe. This creates a delay in processing daily transactions, as well as risks data

loss. Scripts need to be implemented to automatically extract NACE traffic from the Honeywell to the WIS Workstation for processing.

- aj. PR #950524 - DESELECTING GIQS FILTER COLUMN REQUIRES UNNECESSARY KEYSTROKE - When operators create/edit a select or a filter and they have selected a column they don't want, they used to be able to double-click it to deselect it. Now if they double-click the unwanted column, it appears to blank out all selections; however, if they go back a window and return, only the one they double-clicked is gone and the others remain.
- ak. PR #950525 - GSORTS PIM TRACK DISPLAYS LOCAL TIME - A new pim track inserted the local time, not Zulu time, even though the system time on the desktop was in Zulu.
- al. PR #950526 - GSORTS PROMPT OPTION DOES NOT ALLOW NEW INFORMATION - When users run a filter that requires them to enter a prompt, GSORTS prompts the user for an input the first time. After that however, it uses that same information every time. In GIQS, there is a *Clear Prompts* menu option to handle this; however, there is no such option in GSORTS so the user is stuck using the same info.
- am. PR #950544 - The distribution schema and its rationale must be reevaluated. Requirements generated by the GCCS SOP cannot be easily addressed. For example, sending only errors to any organization, tailoring DISTR for DISA processing of direct reported unit data, and processing of database reviews from units to the JS database to name a few.
- an. PR #950607 - GSORTS currently uses its own mapping software routines (GWORLD). The GCCS Program Office and System Engineer's Office have directed that GSORTS needs to utilize the DMA-provided mapping software routines available in the GCCS COE.
- ao. PR #950703 - ANG reports that a unit submitted a MEQLOCN set that was followed by a LABEL/GENTEXT. The MEQLOCN set had several errors and was not distributed. The LABEL/GENTEXT was left in the file for distribution. The results were an OVERALL set that had a LABEL:MEPSD remark following. The error message "LABEL/GENTEXT SETS WERE

NOT PROCESSED DUE TO THE ABOVE ERRORS" was not one of the errors for the MEQLOCN set.

- ap. PR #950704 - There is no method currently available to selectively limit the distribution to a command. Using the EXCLUDE in the UICCOM File is an all-or-nothing option. The distribution needs to be limited to received and processed for some commands; errors and/or received and processed for other commands; and possibly just reviews for a few commands.
- aq. PR #950801 - Processing multiple messages from a unit, *parsemtf* dropped 20 messages from the output file. The messages had routing indicators, station serial numbers, and section numbers like: RUEDRMA0100 Section 1 of 2, RUEDRMA0101 Final Section of 2, RUEDRMA0102 Section 1 of 2, RUEDRMA0103 Final Section of 2, RUEDRMA0104 Section 1 of 2, and RUEDRMA0105 Final Section of 2. Messages with RUEDRMA0100 and RUEDRMA0101 were the only messages in the output file.
- ar. PR #950802 - *pre-ramp* aborted stating it could not combine 2 of the files "07 .dmp" and "07 .txn". These files had BLANK characters in the filename. The filenames should not have blanks but should have valid UICs that information is being sent to.
- as. PR #950806 - *blddistr* aborted with a segmentation fault.
- at. PR #950808 - There are numerous makefiles in PVCS making it difficult for CM to know which one to use for compilation. There needs to be one makefile for each system.
- au. PR #950901 - The *winsort*, *mtfsort*, and *prepsort* files are empty. The files are used by script *mshistory* for first of the month processing to archive previous month statistics. The *mshistory* script is invoked in the *gsupd.sun* update script. Operator must type "q" or the automatic ADPLO update is aborted. The ADPLO questions must be run manually.
- av. PR #950902 - To make GCCS deadline, "GSORTS." prefix was hard-coded into *BuildQuery.c*, *Reports.c*, and the *.inp files in SQLFORMS directories. Develop an environment variable for GIQS, GSORTS, sqlforms, etc.

- aw. PR #950903 - GUPD needs the ability to work with OPS\$ and needs to be addressed before full release of GUPD. The implementation should allow an environment variable which is set up in post-install.
- ax. PR #951002 - Solaris 2.x operating systems have been found to have incorrect permissions for the */tmp* directory which may allow root access.
- ay. PR #960202 - An error exists in the calculation of PERTC. A rounding error occurs when the remainder is .5 and the software rounds up. PERTC has the correct result, but the error "PERTC MUST EQUAL QUOTIENT OF CPAVL/CPAUR * 100" is being generated.
- az. PR #960309 - During the testing of ECP #96007, the software did not function as described. The message "cat: cannot open MSGID, cat: cannot..." was displayed.
- ba. PR #960310 - POSTATAK, when sent through *sb51mtf* does not initialize the second line of the POSTATAK Set for outputs in the files *distr.trn* and *notedit.trn*. Problem occurs on first set only. Additional POSTATAK Sets are handled correctly from the same message.

3.7.4 Priority 4. The following 24 problems and known errors will result in user/operator inconvenience or annoyance but do not affect a required operation or mission essential capability:

- a. DR #930194 - The error messages generated provide no help to a unit when the processor rejected a change in equipment location. The error message is "RECORD WITH KEY VALUES DOES NOT EXIST IN DB." The key values for MEQLOCN are all three field values for UIC, MEQPT, TECEO (appearing as TECON). In order to know how to change equipment's location, the unit must first know what location the database contains for that equipment. The error message should contain relevant MEQLOCN records from the database for that unit (for non-distributed transactions because it assists the MAJCOMS in data QA).
- b. DR #930244 - How about including time zones on the world map, or on all maps for that matter, a function that tells the local time in whatever area you are looking at.

- c. DR #940103 - MULTLOAD is showing displays that need to be deleted. The displays showing "records read", "records written", and "number of records loaded to each table" are either invalid or make little sense to the user.
- d. ER #930005 - Request that every coded field in the database have a coded English language lookup table.
- e. ER #940013 - All messages go into the SCP error queue. It would be nice to set up another queue for received and processed messages--just like the database review message has its own queue.
- f. ER #940014 - Provide impact on system architecture and operation for maintaining the *uiccom* file as an Oracle table.
- g. PR #941004 - The error message "READF MUST BE "P", "S", "R", "T", "M", "N", "X", "Z", is being produced when the field REASF is in error. This happens in the SUBOVRAL set. Need to check OVERALL set too. Field flagged should be REASF.
- h. PR #941102 - On a BIDE set, if the Army-unique field TPSN is reported as 6 numbers, the error message "TPSN--FIELD IS NOT NUMERIC" appears. TPSN must be either 5 or 7 numbers, no other length or non-numeric character is allowed. A more appropriate error message would be helpful in this instance.
- i. PR #941104 - GAINING sets with "Add" as the transaction type are being accepted by SORTS 6.0. JS PUB 1-03.3 and the MTF Executive Summary both state that the only valid transaction type for GAINING sets is "Change."
- j. PR #950105 - In OVERALL processing, if READY/REASN is reported as '3S', PRRAT/PRRES as '1/-/', ESRAT/ESRES as '2/S50', ERRAT/ERRES as '3/R24', and TRRAT/TRRES as '1/-/', two error messages appear: "OVERALL LOGICAL EDIT--READY GREATER THAN PRRAT, ERRAT, ESRAT, OR TRRAT" followed by "OVERALL LOGICAL EDIT--REASN INVALID FOR REPORTED/DATABASE VALUE OF ESRAT." The first message is not true as READY does equal one of the four measured areas (in this case, ERRAT). The second message correctly describes the problem and is all that is needed.

- k. PR #950326 - Created a question using the AIR FORCE TAC_FIGHTER_SQD_AIO as the unit criteria and saved it with no problem. Then created another question with NAVY carrier as the unit criteria. When I first entered the *Edit Question* Window, it appeared I was working with a clean slate. Upon selecting new unit criteria, the last selected unit criteria (from the question I created previously) was displayed in the list of selected units. If I hadn't been paying close attention, I would have created a question about the NAVY and the AIR FORCE. This saving of unit criteria is not obvious to the user.
- l. PR #950401 - USCINCPAC reports that the POINT data in the ORGLOCN table for Army units were in error. The data for all Army units that had not been reported on were in the format "12345N123456W" with 3 trailing blanks. The correct format is "123456N 1234567W". The *multload.c* software needs to be modified prior to the next reload. In addition, an immediate SQL solution should be generated.
- m. PR #950406 - GSORTS LAT/LONG GRID DISPLAY PROBLEM - In GSORTS, would like to be able to turn off display of Waypoint positional description. This description contains the Lat/Long of the "point". Would also like to be able to change the displayed symbol to a "dot," where the "dot" is at the position.
- n. PR #950528 - GSORTS MAP SCREEN UPDATING - When using GSORTS maps, several buttons are useless or the items are not available. Since GSORTS is no longer a Proof-of-Concept, we feel these items should be removed from the screen format. These are some I am aware of, there may be others yet to be discovered: *EDIT* (edit what?), *REPORTS*, *QUERY* (the reference files are not there), *OPTIONS (MAIL)* *GAZETTEER*, *CIA WORLD FACTS*.
- o. PR #950529 - YOU DON'T GET A DESCRIPTION WHEN YOU LOAD LAST RUN QUERY - When you choose *System > Load Last Query*, you should get a description of the units, filter, and select which made up the last query you ran. This should display at the top of the screen under the main menu. You will get a description of the units, but next to *Filter* and *Select* it says "None". The query runs OK. User just can't see description of what he is querying on.

- p. PR #950530 - THE LISTS OF QUESTIONS AVAILABLE TO LOAD ON MAP DON'T MATCH - There are 3 places where you can see a list of all existing questions: 1) *File > Edit Question > Open Question*; 2) *File > Configure Situation Panel > [...]*; 3) *Map Utilities > Load Application*. The contents of these lists should all be the same, but they aren't.
- q. PR #950531 - CONTENTS OF CERTAIN FIELDS ARE NOT COMPLETELY SHOWN, QUERIES - Created a select pattern choosing the following: *ORGLOCN > GEO =< PRGEO > NOCEAN <= NOCEAN_GEO > NAME_NOCEAN*. The first letter of the contents of the Name_Nocean field was cut off without exception when the query using this select was run.
- r. PR #950532 - CERTAIN WINDOWS AT THE BOTTOM OF SCREEN CAN'T BE SEEN - Chose *Report > Edit Report*. The *Edit Report* window appeared at the bottom of the screen with the title bar of the window barely visible. Chose *Output > Display Query test* and got the same result.
- s. PR #950537 - GSORTS RETURN TO WORLD VIEW OPTION - GSORTS should offer an option to return to the whole world view, similar to JMCIS.
- t. PR #950603 - GIQS ALLOWS ONLY ONE ITEM FOR REMOVAL - The user cannot select more than one item at a time for removal (for instance, when removing a query).
- u. PR #950907 - If the operator selects to obtain a hardcopy of the *errors.trn* file produced during the execution of *gsupd.sun*, the error messages are printed on every other page, resulting in considerable waste.
- v. PR #950908 - On change SHIPLOCN sets, if PRGEO is omitted, the message "PRGEO - THIS FIELD IS EITHER MISSING OR INVALID" correctly appears. An irrelevant second message follows, saying "PRGEO - POINT DATA INVALID FOR LAND CODE, GEOFILE COORDINATES USED." As PRGEO was not reported at all, the set has already been rejected and this second message is both superfluous and misleading.
- w. PR #951001 - The GSORTS version number that appears in the GSORTS main window is controlled in the module *gsorts.c* which resides in the GSORTS segment. This module has to be changed every time a patch or release is

issued. Consequently, every patch issued will have to include a patch to the GSORTS segment. This is not only time consuming but costly; every patch issued to the OSF has to be on a separate 8mm tape and two copies of each patch are delivered.

- x. PR #960104 - Per the DII COE Integration and RunTime Spec (I&RTS) Ver 2.0 dated Oct 95, section 4.3.4 Database Roles, and 4.3.5 Grants. This application does not provide database roles for access privileges of its data to the users. Rather, it provides a lower level of access.

3.7.5 Priority 5. Currently, there are no problems and known errors of this priority level in GSORTS.

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SECTION 4. NOTES

This section contains general information that aids in understanding this SVD. Specifically, an alphabetical listing of terms, acronyms, and abbreviations as used in this document is provided:

ACC -----
Air Combat Command at Langley AFB

ADP -----
Automated Data Processing

ADPLO -----
ADP Liaison Officer

AFB -----
Air Force Base

AFI -----
Air Force Instruction

ANSI -----
American National Standards Institute

ASD(C³I) -----
Office of the Assistant Secretary of Defense
Command, Control, Communications, and Intelligence

AUTODIN -----
Automatic Digital Network

C -----
The C programming language as specified by ANSI/ISO
Standard ANSI/ISO 9899:1992 and FIPS PUB 160

CAI -----
Computer-Aided Instruction

CCTC -----
Command and Control Technical Center; forerunner of
JDSSC

CINC -----
Commander-in-Chief

CJCS -----
Chairman of the Joint Chiefs of Staff

CJCSI -----
CJCS Instruction

Class I
Change -----
An engineering change which affects the
contractually specified form, fit, or function of a
configuration item as defined by MIL-STD-973

Class II

Change -----
 An engineering change which does not fall within
 the definition of a Class I change such as: a
 change to documentation only or a change in
 hardware which does not affect any Class I
 determination factor as specified in
 MIL-STD-973

CMAS -----
 Crisis Management ADP System

COE -----
 Common Operating Environment for GCCS

CSCI -----
 Computer Software Configuration Item

CSM -----
 Computer Systems Manual

CSOM -----
 Computer System Operator's Manual as specified in
 DoD-STD-2167A

DI -----
 Data Item

DID -----
 Data Item Description

DISA -----
 Defense Information Systems Agency

DoD -----
 Department of Defense

DoD-STD -----
 Department of Defense Standard

DTG -----
 Date-Time-Group

DR -----
 Deficiency Report; a change request vehicle
 previously used by the SORTS Office to document
 defects

DS -----
 Database Specification as described in DoD-STD-
 7935A

DSSO -----
 Defense Systems Support Organization; forerunner of
 JISC

ECP -----
 Engineering Change Proposal as described in MIL-
 STD-973 and its associated DID (DI-CMAN-80639)

ER -----
 Enhancement Report; a change request vehicle

previously used by the SORTS Office to document requested enhancements

FD -----
Functional Description as specified by DID # DI-IPSC-80689 of DOD-STD-7935A

FIPS PUB -----
Federal Information Processing Standards Publication

FRAS -----
Force Resources Assessment Subsystem; part of the legacy SORTS V5.2 system that has been migrated to the GCCS under GSORTS

GCCS -----
Global Command and Control System; successor to WWMCCS

GSORTS -----
Global SORTS

GUI -----
Graphical User Interface

IPSC -----
Information Processing Standards for Computers

ISO -----
International Standards Organization

JDSSC -----
Joint Data Systems Support Center; forerunner to DSSO

JEX -----
JIEO's Center for Software (Falls Church, VA)

JEXA -----
JEX's Applications Engineering Facility

JEXAA -----
JEXA's SORTS Division

JIEO -----
DISA's Joint Interoperability Engineering Organization

JIEOH -----
JIEO Handbook

JISC -----
Joint Information Service Center; now de-established and all software development functions were transferred to JIEO's Center for Computer Systems Engineering (JEX) in October 1994

JNCR -----
DSSO's Resource Monitoring Division; developers and maintainers of SORTS and GSORTS; now JEXAA

Joint PUB -----
 Joint Staff Publication
 JOTS -----
 Joint Operational Tactical System; in the context
 of this document, its usage refers to the SORTS
 interface (via JVIDS) permitting access to and
 usage of JOTS data
 JS -----
 Joint Staff
 JUH -----
 Joint User Handbook
 JVIDS -----
 Joint Visually Integrated Display System
 Kilobyte -----
 1,024 bytes
 MB -----
 Megabyte; 1,048,576 bytes of information
 MCCR -----
 Mission-Critical Computer Resource
 MEQPT -----
 Major Equipment
 MIL-STD -----
 Military Standard
 MJCOM -----
 Major Command
 Module -----
 In the SORTS environment, a C language function
 MOP -----
 Memorandum of Policy
 Motif -----
 User interface toolkit built on the X Window System
 MTF -----
 Message Text Format; refers to the U.S. Message
 Text Format
 NCA -----
 National Command Authorities
 NMCS -----
 National Military Command System
 OPLAN -----
 Operation Plan
 OSD -----
 Office of the Secretary of Defense
 OSF -----
 DISA's Operational Support Facility in Sterling, VA
 PM -----
 Procedures Manual as specified by DSSO PM 1-91

PR -----
 Problem Report; the change request vehicle used by
 the SORTS Office to document noted problems and
 errors

RDBMS -----
 Relational Database Management System (e.g.,
 Oracle)

REQ -----
 SCM prefix identifier for validated SORTS system
 requirements

SCM -----
 Software Configuration Management

SCN -----
 Specification Change Notice as described in MIL-
 STD-973 and its associated DID (DI-CMAN-80643)

SCP -----
 SORTS Communications Processor Module

SDF -----
 Software Development Folder

SMCC -----
 Special Mission Capability Code

Solaris -----
 The operating system environment of the Sun family
 of Unix workstations and servers; Solaris 2.3 is
 the current operating system version and is
 equivalent to SunOS 5.3

SORTS -----
 Status of Resources and Training System

SORTS-M -----
 Modernized SORTS

SPM -----
 System Programmer Manual

SPS -----
 Software Product Specification as specified by DID
 #
 DI-IPSC-81441 of MIL-STD-498

SQL -----
 Structured Query Language as defined in ANSI
 X3.135-1986 and FIPS PUB 127

SRS -----
 Software Requirements Specification as specified in
 MIL-STD-498

SSDD -----
 System/Subsystem Design Document as described in
 DoD-STD-2167A

Sun -----
 Workstation used as development and operational
 support platform for SORTS in the GCCS environment

SunOS -----
 Sun Operating System; V5.3 is equivalent to Solaris
 2.3

SVD -----
 Software Version Description as specified by DID #
 DI-IPSC-81442 of MIL-STD-498

TM -----
 Technical Memorandum as specified by DSSO PM 1-91

TRR -----
 Test Readiness Review as defined by MIL-STD-1521B

UIC -----
 Unit Identification Code

UM -----
 Users Manual as specified by DoD-STD-7935A

Unix -----
 A multi-tasking operation system that runs on a
 wide variety of computer systems from micro to
 mainframe

USAF -----
 United States Air Force

UTC -----
 Unit Type Code

WIS -----
 WWMCCS Information Systems

WWMCCS -----
 Worldwide Military Command and Control System

WWS -----
 WIS Workstation; refers to the Apple/Macintosh IIfx

X Toolkit -----
 The collective name for two subroutine libraries
 designed to simplify the development of X Window
 System Applications

X Window
 System -----
 A network-based windowing protocol developed at the
 Massachusetts Institute of Technology; Version 11
 of this system is used by GSORTS and GCCS

XSM -----
 X-Windows SORTS Manager

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APPENDIX A
PROBLEMS/KNOWN DEFECTS ANALYSIS

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A.1 Defect Distribution Comparison

Total known defects grew by 6 (5.7%) over the previous release (GSORTS v1.2). Known catastrophic problems (Priority 1 defects) have continued to shrink (down by 50.0% since the last release) and now comprise only 1.8% of all known problems. Although significant resources were applied to major problems (Priority 2 defects), the actual number open grew by 1 due to resource limitations. Priority 2 problems now comprise 29.5% of the current SORTS defect backlog. Similarly, the numbers of open problems for both Priority 3 and 4 also grew due to lack of sufficient resources to maintain parity with the defect injection rate (see Table A-1 below).

Table A-1. Version-Based Defect Distribution

GSORTS v1.2		GSORTS v2.0	
Priority 1	4 (3.8%)	Priority 1	2 (1.8%)
Priority 2	32 (30.2%)	Priority 2	33 (29.5%)
Priority 3	48 (45.3%)	Priority 3	53 (47.3%)
Priority 4	22 (20.7%)	Priority 4	24 (21.4%)
Priority 5	0 (0.0%)	Priority 5	0 (0.0%)
TOTAL	106 (100.0%)	TOTAL	112 (100.0%)

A.2 Known GSORTS v1.2 Problems/Errors Closure Analysis

Of the 106 known problems/errors that were released with GSORTS v1.2 (SORTS v6.1), a total of 72 (67.9%) remain open and 34 (32.1%) were closed. Of the 34 that were closed, 32 represent fixes that were implemented while the remaining 2 were closed for other reasons and not implemented.

As with the previous release, the most significant levels of project resources were applied to the Priority 1 and 2 defects.

For example, of 4 Priority 1 defects released previously, 3 were fixed (the remaining one is Air Force specific and direction to implement it has not been received yet). Of 32 major defects (priority 2) released previously, 17 were fixed, 1 was closed for administrative reasons (not fixed), and 7 of the remaining number were worked on at some level. In summary, 77.8% of all known Priority 1 & 2 defects were worked on at some level and a total of 58.3% of those were also closed. Table A-2 provides a detailed breakout of closure status for all 106 GSORTS v1.2 defects.

Table A-2. GSORTS v1.2 Problems/Errors Closure Status

	OPEN					CLOSED		
Priority	Validated	Under Analysis	Analyzed	Working	Testing	Disap- proved	Fixed	Totals
1	1	0	0	0	0	0	3	4
2	7	2	5	0	0	1	17	32
3	18	0	12	7	0	1	10	48
4	13	0	3	3	1	0	2	22
5	0	0	0	0	0	0	0	0
Subtotals	39	2	20	10	1	2	32	106
Total Open 72						Total Closed 34		

APPENDIX B
SOFTWARE RELEASE FILES

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This appendix contains the file listings for all GSORTS v2.0 files and directories for a Solaris-based installation. All file listings show both file size (in kilobytes) and the file (with pathname). All file entries are assumed to be installed on the **h/** drive in accordance with standard GCCS COE installation procedures.

B.1 Files Comprising the GSORTS Segment

```
0 GSORTS/
0 GSORTS/Scripts/
0 GSORTS/Scripts/home/
884 GSORTS/Scripts/home/.Xdefaults
2767 GSORTS/Scripts/home/.mwmrc
323 GSORTS/Scripts/home/.xsession
0 GSORTS/SegDescrip/
7 GSORTS/SegDescrip/Compat
2614 GSORTS/SegDescrip/DEINSTALL.remove_account
1553 GSORTS/SegDescrip/DEINSTALL.remove_group
1213 GSORTS/SegDescrip/DEINSTALL
158 GSORTS/SegDescrip/GSORTS_UID_GID
94 GSORTS/SegDescrip/Hardware
82 GSORTS/SegDescrip/ModName
4730 GSORTS/SegDescrip/PostInstall.1
8074 GSORTS/SegDescrip/PostInstall.setup_account
3230 GSORTS/SegDescrip/PostInstall.setup_group
4094 GSORTS/SegDescrip/PostInstall
87 GSORTS/SegDescrip/Profiles.GSORTS
479 GSORTS/SegDescrip/ReleaseNotes
93 GSORTS/SegDescrip/Requires
8 GSORTS/SegDescrip/Security
9 GSORTS/SegDescrip/SegType
13 GSORTS/SegDescrip/VERSION
116 GSORTS/SegDescrip/Validated
17708 GSORTS/SegDescrip/gs
0 GSORTS/bitmap/
1871 GSORTS/bitmap/gsorts.img
0 GSORTS/data/
0 GSORTS/data/Profiles/
229 GSORTS/data/Profiles/LaunchDesc.GSORTS
116 GSORTS/data/Profiles/LaunchList.GSORTS
92 GSORTS/data/Profiles/Profiles.GSORTS
0 GSORTS/data/adl/
21094 GSORTS/data/adl/capitals.adl
30068 GSORTS/data/adl/capitals.bin
2736 GSORTS/data/adl/capitals.ndx
0 GSORTS/data/errors/
0 GSORTS/data/errors/dummy
```

0 GSORTS/data/app-defaults/
 1486 GSORTS/data/app-defaults/XGeneralIQS
 6161 GSORTS/data/app-defaults/XGlobalCCS
 521 GSORTS/data/app-defaults/XSortsMgr
 1095 GSORTS/data/app-defaults/Xedit
 0 GSORTS/data/cdrom/
 47 GSORTS/data/cdrom/mount_dcw
 24576 GSORTS/data/cdrom/mountcd
 31 GSORTS/data/cdrom/unmount_dcw
 24576 GSORTS/data/cdrom/unmountcd
 0 GSORTS/data/clear/
 16384 GSORTS/data/clear/clear_colormap
 335872 GSORTS/data/clear/libpixmap.so.2.14
 0 GSORTS/data/filt-sel-qst/
 306 GSORTS/data/filt-sel-qst/AC_SERIOUS.F-UNITS
 205 GSORTS/data/filt-sel-qst/AC_Serious.qst
 261 GSORTS/data/filt-sel-qst/AC_Serious@SPRDSHT_RDY.qst
 264 GSORTS/data/filt-sel-qst/AIRCRAFT.F-UNITS
 149 GSORTS/data/filt-sel-qst/ANY_ANAME.F-UNITS
 129 GSORTS/data/filt-sel-qst/ANY_CAT.F-UNITS
 141 GSORTS/data/filt-sel-qst/ANY_MEQPT.F-UNITS
 112 GSORTS/data/filt-sel-qst/ANY_OPLAN.F-UNITS
 216 GSORTS/data/filt-sel-qst/ANY_SHIP.F-UNITS
 138 GSORTS/data/filt-sel-qst/ANY_UIC.F-UNITS
 272 GSORTS/data/filt-sel-qst/APORTS.S-APORTS
 132 GSORTS/data/filt-sel-qst/APORTS_ALL.qst
 203 GSORTS/data/filt-sel-qst/Aircraft_All@SPRDSHT_RDY.qst
 202 GSORTS/data/filt-sel-qst/Aircraft_Any_Serv.qst
 225 GSORTS/data/filt-sel-qst/Aircraft_Any_Serv@AC_Any_Serv@SPRDSHT_RDY.qst
 182 GSORTS/data/filt-sel-qst/Aname_Any.qst
 226 GSORTS/data/filt-sel-qst/Aircraft_Any_Serv@SPRDSHT_RDY.qst
 205 GSORTS/data/filt-sel-qst/Aname_Any@Aname_Any@SPRDSHT_RDY.qst
 204 GSORTS/data/filt-sel-qst/Aname_Any@Aname_Any@SPRDSHT_RDY.qst
 237 GSORTS/data/filt-sel-qst/Aname_Any@SPRDSHT_RDY.qst
 710 GSORTS/data/filt-sel-qst/CATEGORY.S-UNITS
 143 GSORTS/data/filt-sel-qst/CAT_2345.F-UNITS
 213 GSORTS/data/filt-sel-qst/Carriers.qst
 230 GSORTS/data/filt-sel-qst/Carriers@SPRDSHT_RDY.qst
 289 GSORTS/data/filt-sel-qst/JOTS.S-UNITS
 182 GSORTS/data/filt-sel-qst/Jots_All.qst
 213 GSORTS/data/filt-sel-qst/Jots_All@SPRDSHT_RDY.qst
 365 GSORTS/data/filt-sel-qst/LOC_ACTV_RDY.S-UNITS
 470 GSORTS/data/filt-sel-qst/LastQuery.Q
 537 GSORTS/data/filt-sel-qst/MEQPT_UNIT.S-UNITS
 254 GSORTS/data/filt-sel-qst/MP_POLICE.F-UNITS
 350 GSORTS/data/filt-sel-qst/OPLAN.S-UNITS
 179 GSORTS/data/filt-sel-qst/OPLAN_AC.qst
 235 GSORTS/data/filt-sel-qst/OPLAN_AC@SPRDSHT_RDY.qst

165 GSORTS/data/filt-sel-qst/OPLAN_ANY.qst
 189 GSORTS/data/filt-sel-qst/OPLAN_ANY@OPLAN_ANY@SPRDSHT_RDY.qst
 189 GSORTS/data/filt-sel-qst/OPLAN_ANY@SPRDSHT_RDY.qst
 192 GSORTS/data/filt-sel-qst/OPLAN_ARMY_CORPS.qst
 218 GSORTS/data/filt-sel-qst/OPLAN_ARMY_CORPS@SPRDSHT_RDY.qst
 249 GSORTS/data/filt-sel-qst/OPLAN_UNIT.F-UNITS
 777 GSORTS/data/filt-sel-qst/OPLAN_UNIT.S-UNITS
 189 GSORTS/data/filt-sel-qst/OPLAN_UNIT.qst
 231 GSORTS/data/filt-sel-qst/OPLAN_UNIT@OPLAN_UNIT@SPRDSHT_RDY.qst
 215 GSORTS/data/filt-sel-qst/OPLAN_UNIT@SPRDSHT_RDY.qst
 227 GSORTS/data/filt-sel-qst/OPLAN_U_C_ANY.qst
 253 GSORTS/data/filt-sel-qst/OPLAN_U_C_ANY@SPRDSHT_RDY.qst
 217 GSORTS/data/filt-sel-qst/OPLN_UIC_NOT.F-UNITS
 211 GSORTS/data/filt-sel-qst/OPLN_UIC_NOT.qst
 265 GSORTS/data/filt-sel-qst/OPLN_UIC_NOT@SPRDSHT_RDY.qst
 336 GSORTS/data/filt-sel-qst/OPLN_UIC_NT2.F-UNITS
 160 GSORTS/data/filt-sel-qst/PORTS_ALL.qst
 305 GSORTS/data/filt-sel-qst/PORTS_DATA.S-PORTS
 105 GSORTS/data/filt-sel-qst/PORTS_ONLY.F-PORTS
 328 GSORTS/data/filt-sel-qst/PORT_DATA.S-UNITS
 424 GSORTS/data/filt-sel-qst/SHIPDATA.S-UNITS
 143 GSORTS/data/filt-sel-qst/SHIPS_ALL.F-UNITS
 182 GSORTS/data/filt-sel-qst/SHIPS_ALL.qst
 209 GSORTS/data/filt-sel-qst/SHIPS_ALL@SPRDSHT_RDY.qst
 254 GSORTS/data/filt-sel-qst/SPEC_FORCES.F-UNITS
 195 GSORTS/data/filt-sel-qst/SPEC_FORCES.qst
 220 GSORTS/data/filt-sel-qst/SPEC_FORCES@SPRDSHT_RDY.qst
 322 GSORTS/data/filt-sel-qst/SPRDSHT_RDY.S-UNITS
 198 GSORTS/data/filt-sel-qst/Ship_Any.qst
 258 GSORTS/data/filt-sel-qst/Ship_Any@SPRDSHT_RDY.qst
 205 GSORTS/data/filt-sel-qst/Ship_Any@Ship_Any@SPRDSHT_RDY.qst
 710 GSORTS/data/filt-sel-qst/eqptbox.R-UNITS
 77 GSORTS/data/filt-sel-qst/jots.F-UNITS
 0 GSORTS/data/fonts/
 138 GSORTS/data/fonts/fonts.dir
 7871 GSORTS/data/fonts/mwssym12x12.bdf
 8951 GSORTS/data/fonts/mwssym16x16.bdf
 12191 GSORTS/data/fonts/mwssym20x20.bdf
 13703 GSORTS/data/fonts/mwssym24x24.bdf
 5757 GSORTS/data/fonts/mwssym8x8.bdf
 0 GSORTS/data/giqs/
 99296 GSORTS/data/giqs/Schema
 146 GSORTS/data/giqs/displan.sql
 428 GSORTS/data/giqs/explain.sql
 24619 GSORTS/data/giqs/help.text
 811 GSORTS/data/giqs/sorts_cols.sql
 374 GSORTS/data/giqs/sorts_tabs.sql
 1018 GSORTS/data/giqs/tab_desc.lst

3858832 GSORTS/data/giqs/giqs
 0 GSORTS/data/gsorts/
 5266 GSORTS/data/gsorts/About.help
 398 GSORTS/data/gsorts/MakeUnitCriteria.sql
 23350 GSORTS/data/gsorts/UnitCriteria.txt
 447 GSORTS/data/gsorts/airwgsq.sql
 8716 GSORTS/data/gsorts/colors.txt
 31 GSORTS/data/gsorts/gsorts-update.file
 32084 GSORTS/data/gsorts/help.text
 281 GSORTS/data/gsorts/text.txt
 184 GSORTS/data/gsorts/unmount_dcw
 701 GSORTS/data/gsorts/xrunforms
 5215444 GSORTS/data/gsorts/gsorts
 42140 GSORTS/data/gsorts/MakeApplication
 12244 GSORTS/data/gsorts/SumHeap
 3148180 GSORTS/data/gsorts/gsorts-update
 10557 GSORTS/data/gsorts/gsorts_warn
 0 GSORTS/data/image/
 404008 GSORTS/data/image/map0001.xwd
 0 GSORTS/data/nightly/
 2204 GSORTS/data/nightly/daily-brief.bat
 2213 GSORTS/data/nightly/demo.bat
 2452 GSORTS/data/nightly/demo1.bat
 381 GSORTS/data/nightly/overlay.bat
 0 GSORTS/data/ovr/
 6402 GSORTS/data/ovr/TESTER.ovr
 32768 GSORTS/data/ovr/ovr.tar
 3144 GSORTS/data/ovr/test1.ovr
 3657 GSORTS/data/ovr/test2.ovr
 3657 GSORTS/data/ovr/test3.ovr
 370 GSORTS/data/ovr/test4.ovr
 1971 GSORTS/data/ovr/test5.ovr
 0 GSORTS/data/pimtrack/
 667 GSORTS/data/pimtrack/germany_home.pim
 1315 GSORTS/data/pimtrack/kittyhawk.pim
 847 GSORTS/data/pimtrack/pimtrack.pim
 1056 GSORTS/data/pimtrack/sorts_conf.pim
 0 GSORTS/data/siqsfiles/
 266 GSORTS/data/siqsfiles/AAC.F-UNITS
 134 GSORTS/data/siqsfiles/ABASE-DUAL.qst
 183 GSORTS/data/siqsfiles/ABASE-DUAL@SPRDSHT_RDY.qst
 306 GSORTS/data/siqsfiles/AC_SERIOUS.F-UNITS
 270 GSORTS/data/siqsfiles/AIRCRAFT.F-UNITS
 159 GSORTS/data/siqsfiles/AIRFIELDS.F-UNITS
 99 GSORTS/data/siqsfiles/AIRFIELDSJ.F-UNITS
 102 GSORTS/data/siqsfiles/AIRFIELDSTM.F-UNITS
 413 GSORTS/data/siqsfiles/AIRFIELDSS.S-UNITS
 403 GSORTS/data/siqsfiles/AIRWGSQ.F-UNITS

172 GSORTS/data/siqsfiles/AMPHIB_VEH.F-UNITS
149 GSORTS/data/siqsfiles/ANY_ANAME.F-UNITS
141 GSORTS/data/siqsfiles/ANY_MEQPT.F-UNITS
112 GSORTS/data/siqsfiles/ANY_OPLAN.F-UNITS
216 GSORTS/data/siqsfiles/ANY_SHIP.F-UNITS
138 GSORTS/data/siqsfiles/ANY_UIC.F-UNITS
272 GSORTS/data/siqsfiles/APORTS.S-APORTS
188 GSORTS/data/siqsfiles/ARMOR_VEH.F-UNITS
135 GSORTS/data/siqsfiles/ARMY-BN.qst
183 GSORTS/data/siqsfiles/ARMY-BN@SPRDSHT_RDY.qst
162 GSORTS/data/siqsfiles/ARMY-RNGRS.qst
210 GSORTS/data/siqsfiles/ARMY-RNGRS@SPRDSHT_RDY.qst
92 GSORTS/data/siqsfiles/ARMY_RESV.F-UNITS
304 GSORTS/data/siqsfiles/AirLiftHvy.F-UNITS
205 GSORTS/data/siqsfiles/Aname_Any@Aname-Any@SPRDSHT_RDY.qst
150 GSORTS/data/siqsfiles/Army_BN.F-UNITS
107 GSORTS/data/siqsfiles/AtSea.F-UNITS
132 GSORTS/data/siqsfiles/BOMBERS.F-UNITS
476 GSORTS/data/siqsfiles/CATEGORY.S-UNITS
139 GSORTS/data/siqsfiles/CAT_1.F-UNITS
143 GSORTS/data/siqsfiles/CAT_2345.F-UNITS
186 GSORTS/data/siqsfiles/CLARK-UICS.F-UNITS
186 GSORTS/data/siqsfiles/CLARK-UICS.F
31 GSORTS/data/siqsfiles/CNTRY_CD.F-UNITS
436 GSORTS/data/siqsfiles/CONUS_M.F-UNITS
438 GSORTS/data/siqsfiles/CONUS_N_M.F-UNITS
114 GSORTS/data/siqsfiles/E-3.qst
438 GSORTS/data/siqsfiles/CONUS_N_U.F-UNITS
169 GSORTS/data/siqsfiles/CV_EQPT.F-UNITS
251 GSORTS/data/siqsfiles/CoastGuard.F-UNITS
151 GSORTS/data/siqsfiles/E-3.F-UNITS
196 GSORTS/data/siqsfiles/E-3@SPRDSHT_RDY.qst
151 GSORTS/data/siqsfiles/E-4.F-UNITS
134 GSORTS/data/siqsfiles/E-4.qst
216 GSORTS/data/siqsfiles/E-4@SPRDSHT_RDY.qst
98 GSORTS/data/siqsfiles/EMBARKED.F-UNITS
248 GSORTS/data/siqsfiles/EMBARKED_AIR.F-UNITS
523 GSORTS/data/siqsfiles/EMBARK_DATA.S-UNITS
302 GSORTS/data/siqsfiles/ENGINEERS.F-UNITS
132 GSORTS/data/siqsfiles/F-15.qst
137 GSORTS/data/siqsfiles/F-16.qst
252 GSORTS/data/siqsfiles/FIGHTERS.F-UNITS
647 GSORTS/data/siqsfiles/FSOC.F-UNITS
287 GSORTS/data/siqsfiles/GEOBOX.F-UNITS
395 GSORTS/data/siqsfiles/GEO_LOC.S-UNITS
782 GSORTS/data/siqsfiles/GND_FORCEBN.F-UNITS
799 GSORTS/data/siqsfiles/GND_FORCES.F-UNITS
119 GSORTS/data/siqsfiles/HARBORS.F-UNITS

253 GSORTS/data/siqsfiles/HARBORS_SHIP.F-UNITS
 487 GSORTS/data/siqsfiles/HELICOPTERS.F-UNITS
 138 GSORTS/data/siqsfiles/IN_MOVE.F-UNITS
 148 GSORTS/data/siqsfiles/JOPE-BUPDTD.F-UNITS
 148 GSORTS/data/siqsfiles/JOPE-BUPDTD.F
 289 GSORTS/data/siqsfiles/JOTS.S-UNITS
 77 GSORTS/data/siqsfiles/JOTS.F-UNITS
 289 GSORTS/data/siqsfiles/JOTS_ALL.S-UNITS
 341 GSORTS/data/siqsfiles/JOTS_SORTS.S-UNITS
 134 GSORTS/data/siqsfiles/JPB-VPSQDS.qst
 476 GSORTS/data/siqsfiles/LANTNAVAIR.F-UNITS
 386 GSORTS/data/siqsfiles/LANT_PAC_AIR.F-UNITS
 432 GSORTS/data/siqsfiles/LOC_ACTV_RDY.S-UNITS
 97 GSORTS/data/siqsfiles/M1-Tanks.qst
 350 GSORTS/data/siqsfiles/OPLAN.S-UNITS
 157 GSORTS/data/siqsfiles/M1_TANKS.F-UNITS
 299 GSORTS/data/siqsfiles/MARINE_AIR.F-UNITS
 175 GSORTS/data/siqsfiles/MEQPT_CNTRY.F-UNITS
 222 GSORTS/data/siqsfiles/MEQPT_EMB_SH.F-UNITS
 625 GSORTS/data/siqsfiles/MEQPT_EMB_SH.S-UNITS
 209 GSORTS/data/siqsfiles/MEQPT_EMB_UN.F-UNITS
 439 GSORTS/data/siqsfiles/MEQPT_EMB_UN.S-UNITS
 114 GSORTS/data/siqsfiles/MEQPT_SPECIF.F-UNITS
 428 GSORTS/data/siqsfiles/MEQPT_UNIT.S-UNITS
 311 GSORTS/data/siqsfiles/NAVYVP_AIR.F-UNITS
 1114 GSORTS/data/siqsfiles/OPCON_DATA.S-UNITS
 401 GSORTS/data/siqsfiles/ORGLOC_MEQPT.S-UNITS
 233 GSORTS/data/siqsfiles/PATROL_ASW.F-UNITS
 369 GSORTS/data/siqsfiles/PER_DEPLY.S-UNITS
 94 GSORTS/data/siqsfiles/PER_SOMAL.F-UNITS
 148 GSORTS/data/siqsfiles/PORT-CoastG.qst
 120 GSORTS/data/siqsfiles/PORTS.F-UNITS
 305 GSORTS/data/siqsfiles/PORTS_DATA.S-PORTS
 105 GSORTS/data/siqsfiles/PORTS_ONLY.F-PORTS
 250 GSORTS/data/siqsfiles/PORTS_SHIPS.F-UNITS
 328 GSORTS/data/siqsfiles/PORT_DATA.S-UNITS
 519 GSORTS/data/siqsfiles/Perstren-per.R
 148 GSORTS/data/siqsfiles/READY_RMKS.F-UNITS
 188 GSORTS/data/siqsfiles/RECON_AIR.F-UNITS
 183 GSORTS/data/siqsfiles/RECON_HELOS.F-UNITS
 367 GSORTS/data/siqsfiles/SAR_AIRCRAFT.F-UNITS
 468 GSORTS/data/siqsfiles/SHIPDATA.S-UNITS
 143 GSORTS/data/siqsfiles/SHIPS_ALL.F-UNITS
 480 GSORTS/data/siqsfiles/SHIPS_CAP_U.F-UNITS
 188 GSORTS/data/siqsfiles/SHIPS_CMD.F-UNITS
 194 GSORTS/data/siqsfiles/SHIPS_INPORT.F-UNITS
 183 GSORTS/data/siqsfiles/SHIPS_MSC_U.F-UNITS
 153 GSORTS/data/siqsfiles/SHIP_DD.F-UNITS

254 GSORTS/data/siqsfiles/SPEC_FORCES.F-UNITS
 322 GSORTS/data/siqsfiles/SPRDSHT_RDY.S-UNITS
 209 GSORTS/data/siqsfiles/Support.F-UNITS
 153 GSORTS/data/siqsfiles/TANKERS.F-UNITS
 163 GSORTS/data/siqsfiles/TANKS.F-UNITS
 465 GSORTS/data/siqsfiles/TCOMMEQ_U.S-UNITS
 104 GSORTS/data/siqsfiles/Task_Grp.F-UNITS
 198 GSORTS/data/siqsfiles/Task_Grp.S-UNITS
 148 GSORTS/data/siqsfiles/USAFEDUAL.F-UNITS
 247 GSORTS/data/siqsfiles/USAF_AIRCRAFT.F-UNITS
 252 GSORTS/data/siqsfiles/WHARFS_SHIPS.F-UNITS
 77 GSORTS/data/siqsfiles/jots.F-UNITS
 224 GSORTS/data/siqsfiles/jots2.S-UNITS
 178 GSORTS/data/siqsfiles/name_pregeo.S-UNITS
 0 GSORTS/data/situations/
 458 GSORTS/data/situations/G_Enhancements.SIT
 15 GSORTS/data/situations/gsorts.SIT.last
 2650 GSORTS/data/situations/map0001.set
 2484 GSORTS/data/situations/map0002.set
 2463 GSORTS/data/situations/map0003.set
 2505 GSORTS/data/situations/map0004.set
 2638 GSORTS/data/situations/map0005.set
 2640 GSORTS/data/situations/map0006.set
 0 GSORTS/data/sqlforms/
 65574 GSORTS/data/sqlforms/MEQPT.frm
 1221 GSORTS/data/sqlforms/TUCHA.frm
 161178 GSORTS/data/sqlforms/help.keys
 12725 GSORTS/data/sqlforms/APORTS.frm
 2887 GSORTS/data/sqlforms/GEO_TABLE.frm
 21348 GSORTS/data/sqlforms/HIERARCH.frm
 20392 GSORTS/data/sqlforms/MEQPTQ.frm
 51883 GSORTS/data/sqlforms/PORTS.frm
 49848 GSORTS/data/sqlforms/SORTS.frm
 2876 GSORTS/data/sqlforms/bide.frm
 1228 GSORTS/data/sqlforms/TUCHA_TABLE.frm
 1113 GSORTS/data/sqlforms/embarked.frm
 2900 GSORTS/data/sqlforms/orglocln.frm
 2364 GSORTS/data/sqlforms/rptnorg.frm
 0 GSORTS/data/xedit/
 6019 GSORTS/data/xedit/xedit.man
 910512 GSORTS/data/xedit/xedit
 0 GSORTS/data/xsm/
 80787 GSORTS/data/xsm/AFP_55-15.ASC
 244646 GSORTS/data/xsm/DB_SPEC.ASC
 10 GSORTS/data/xsm/FRAALL.lst
 11 GSORTS/data/xsm/FRAS.bat
 10 GSORTS/data/xsm/FRAS01.lst
 1330 GSORTS/data/xsm/FRAS01.sql

10 GSORTS/data/xsm/FRAS02.lst
 1219 GSORTS/data/xsm/FRAS02.sql
 10 GSORTS/data/xsm/FRAS03.lst
 1552 GSORTS/data/xsm/FRAS03.sql
 10 GSORTS/data/xsm/FRAS04.lst
 5783 GSORTS/data/xsm/FRAS04.sql
 10 GSORTS/data/xsm/FRAS05.lst
 8734 GSORTS/data/xsm/FRAS05.sql
 10 GSORTS/data/xsm/FRAS06.lst
 2281 GSORTS/data/xsm/FRAS06.sql
 10 GSORTS/data/xsm/FRAS07.lst
 2127 GSORTS/data/xsm/FRAS07.sql
 10 GSORTS/data/xsm/FRAS08.lst
 1648 GSORTS/data/xsm/FRAS08.sql
 686 GSORTS/data/xsm/FRAS_REPORTS.ASC
 56 GSORTS/data/xsm/SERV_TXT_FILES
 82986 GSORTS/data/xsm/SORTSREP.ASC
 592712 GSORTS/data/xsm/xsm
 185 GSORTS/data/deliver-gsorts
 440 GSORTS/data/gsorts.env
 2431 GSORTS/data/run_giqs
 2726 GSORTS/data/run_gsorts
 2708 GSORTS/data/.login.sun
 0 GSORTS/data/giqs-batch/
 0 GSORTS/data/giqs-batch/dummy
 0 GSORTS/progs/
 2726 GSORTS/progs/GSORTS_RUN_GSORTS

B.2 Files Comprising the GORA Segment

0 GORA/
 0 GORA/SegDescrip/
 1577 GORA/SegDescrip/DEINSTALL.oracle
 186 GORA/SegDescrip/DEINSTALL
 38 GORA/SegDescrip/Hardware
 85 GORA/SegDescrip/ModName
 3346 GORA/SegDescrip/PostInstall.oracle
 381 GORA/SegDescrip/PostInstall
 248 GORA/SegDescrip/ReleaseNotes
 74 GORA/SegDescrip/Requires
 8 GORA/SegDescrip/Security
 19 GORA/SegDescrip/SegType
 13 GORA/SegDescrip/VERSION
 114 GORA/SegDescrip/Validated
 0 GORA/accounts/
 1043 GORA/accounts/Grmpasswd
 247 GORA/accounts/check_oracle_user.sql
 62 GORA/accounts/cr_gsorts_syn.sql

161 GORA/accounts/cr_oracle_user.sql
 1964 GORA/accounts/determine_oracle_password
 62513 GORA/accounts/grant_gsorts_user.sql
 781 GORA/accounts/new_gsorts_syn
 1749 GORA/accounts/new_gsorts_user
 1749 GORA/accounts/new_oracle_user
 316 GORA/accounts/GSORTSUSERS
 0 GORA/constraints/
 67 GORA/constraints/activ_pk.sql
 71 GORA/constraints/afequip_pk.sql
 73 GORA/constraints/afpertng_pk.sql
 67 GORA/constraints/afspecap_pk.sql
 67 GORA/constraints/altyp_pk.sql
 67 GORA/constraints/asgmt_pk.sql
 67 GORA/constraints/avcat_pk.sql
 64 GORA/constraints/bcmd_pk.sql
 59 GORA/constraints/bide_pk.sql
 67 GORA/constraints/coaff_pk.sql
 205 GORA/constraints/cr_rm_idx.sql
 67 GORA/constraints/crtcd_pk.sql
 67 GORA/constraints/csersv_pk.sql
 182 GORA/constraints/deployed_idx.sql
 67 GORA/constraints/docid_pk.sql
 67 GORA/constraints/embarked_pk.sql
 84 GORA/constraints/eqipopln_pk.sql
 67 GORA/constraints/errors_pk.sql
 64 GORA/constraints/flag_pk.sql
 67 GORA/constraints/fordv_pk.sql
 67 GORA/constraints/mecap_pk.sql
 64 GORA/constraints/mecl_pk.sql
 185 GORA/constraints/meqlcn_idx1.sql
 77 GORA/constraints/meqlcn_pk.sql
 67 GORA/constraints/meqpt_pk.sql
 67 GORA/constraints/merec_pk.sql
 67 GORA/constraints/mjcc0_pk.sql
 109 GORA/constraints/mjcc6_pk.sql
 70 GORA/constraints/nocean_pk.sql
 65 GORA/constraints/orglocn_pk.sql
 71 GORA/constraints/overall_pk.sql
 75 GORA/constraints/package_pk.sql
 64 GORA/constraints/peqs_pk.sql
 79 GORA/constraints/perstren_pk.sql
 61 GORA/constraints/pid_pk.sql
 61 GORA/constraints/pin_pk.sql
 59 GORA/constraints/plad_pk.sql
 83 GORA/constraints/planstatus_pk.sql
 64 GORA/constraints/prma_pk.sql
 67 GORA/constraints/reasn_pk.sql

67 GORA/constraints/reserves_pk.sql
 67 GORA/constraints/rptcn_pk.sql
 65 GORA/constraints/rptnorg_pk.sql
 61 GORA/constraints/rsn_pk.sql
 67 GORA/constraints/secur_pk.sql
 64 GORA/constraints/sedy_pk.sql
 67 GORA/constraints/shiplocn_pk.sql
 124 GORA/constraints/subovral_pk.sql
 77 GORA/constraints/tcommeq_pk.sql
 64 GORA/constraints/tedy_pk.sql
 70 GORA/constraints/tmecus_pk.sql
 67 GORA/constraints/tpers_pk.sql
 72 GORA/constraints/tpsn_pk.sql
 67 GORA/constraints/tread_pk.sql
 61 GORA/constraints/tucha_pk.sql
 61 GORA/constraints/udc_pk.sql
 63 GORA/constraints/uicom_pk.sql
 61 GORA/constraints/ulc_pk.sql
 67 GORA/constraints/undc4_pk.sql
 109 GORA/constraints/undc_pk.sql
 77 GORA/constraints/unitopln_pk.sql
 0 GORA/cr/
 566 GORA/cr/apcond.cr
 1350 GORA/cr/aports.cr
 609 GORA/cr/aprons.cr
 1892 GORA/cr/apsurfac.cr
 583 GORA/cr/aptype.cr
 2433 GORA/cr/ar_army_stat_rpt.cr
 687 GORA/cr/ar_asorts_nar_rmk_txt.cr
 578 GORA/cr/ar_asorts_usr_stat.cr
 790 GORA/cr/ar_crtcl_eq_or_pct.cr
 605 GORA/cr/ar_free_form_text.cr
 637 GORA/cr/ar_non_dplybl_pers.cr
 724 GORA/cr/ar_rptd_asi_shrtg.cr
 697 GORA/cr/ar_rptd_envrn_tng.cr
 666 GORA/cr/ar_rptd_eq_rplcmnt.cr
 768 GORA/cr/ar_rptd_grd_strn.cr
 802 GORA/cr/ar_rptd_lic_shrtg.cr
 711 GORA/cr/ar_rptd_mos_shrtg.cr
 636 GORA/cr/ar_rptd_nbceq_slvl.cr
 794 GORA/cr/ar_rptd_oh_eq_shrt.cr
 713 GORA/cr/ar_rptd_pie_or_pct.cr
 736 GORA/cr/ar_rptd_pie_stat.cr
 955 GORA/cr/ar_rptd_rount_stat.cr
 798 GORA/cr/ar_rptd_s4_msrd_eq.cr
 735 GORA/cr/ar_rptd_sqi_shrtg.cr
 740 GORA/cr/ar_rptd_srpls_pers.cr
 2131 GORA/cr/ar_unit.cr

380 GORA/cr/aremarks.cr
994 GORA/cr/arf_adoptd_nsn.cr
577 GORA/cr/arf_altn_subrptr.cr
469 GORA/cr/arf_asgmt_cd_ref.cr
599 GORA/cr/arf_asgmt_mjcom_vldtn.cr
507 GORA/cr/arf_cd_unit_ref.cr
540 GORA/cr/arf_cmd_asgmt_ref.cr
529 GORA/cr/arf_cmd_cd_ref.cr
2665 GORA/cr/armytotals.cr
644 GORA/cr/arf_cmd_loc_ref.cr
511 GORA/cr/arf_err_msg_ref.cr
714 GORA/cr/arf_line_item.cr
583 GORA/cr/arf_oests_xref.cr
507 GORA/cr/arf_or_rsn_rfrn.cr
805 GORA/cr/arf_rpt_nbr_log.cr
670 GORA/cr/arf_src_utc_xref.cr
700 GORA/cr/arf_srvs_br_ref.cr
575 GORA/cr/arf_statc_asgmt_vldtn.cr
506 GORA/cr/arf_tpsn_utc_xref.cr
330 GORA/cr/arf_usr_cycl.cr
2447 GORA/cr/armyunique.cr
240 GORA/cr/avcat.cr
582 GORA/cr/clearance.cr
2205 GORA/cr/deploy.cr
316 GORA/cr/depwords.cr
521 GORA/cr/discharge.cr
362 GORA/cr/distr_addr.cr
237 GORA/cr/flag.cr
262 GORA/cr/docid.cr
241 GORA/cr/errors.cr
240 GORA/cr/fordv.cr
421 GORA/cr/futc.cr
987 GORA/cr/geofile.cr
467 GORA/cr/gments.cr
432 GORA/cr/history.cr
11527 GORA/cr/joint.cr
2359 GORA/cr/jopes.cr
243 GORA/cr/levels.cr
5883 GORA/cr/lookup.cr
378 GORA/cr/mandpfrc.cr
240 GORA/cr/mecap.cr
237 GORA/cr/mecl.cr
949 GORA/cr/meqpt.cr
336 GORA/cr/mission.cr
296 GORA/cr/misstat.cr
395 GORA/cr/move.cr
237 GORA/cr/nocean.cr
644 GORA/cr/nv_sorts_prma.cr

458 GORA/cr/nv_sorts_spcap.cr
491 GORA/cr/nv_sorts_tskcd.cr
474 GORA/cr/nv_staff.cr
333 GORA/cr/nvfflt.cr
496 GORA/cr/nv_unitcdr.cr
373 GORA/cr/nvfprma.cr
489 GORA/cr/nvf_res_area_reasons.cr
475 GORA/cr/nvf_res_area_types.cr
346 GORA/cr/nvf_spcap.cr
373 GORA/cr/nvf_tycom.cr
329 GORA/cr/oplan_cnts.cr
307 GORA/cr/plad.cr
889 GORA/cr/portberths.cr
721 GORA/cr/portclearance.cr
668 GORA/cr/portcraft.cr
849 GORA/cr/portdischarge.cr
710 GORA/cr/porteqpt.cr
494 GORA/cr/portreview.cr
1265 GORA/cr/ports.cr
763 GORA/cr/portstats.cr
1492 GORA/cr/portstorage.cr
471 GORA/cr/portutilities.cr
470 GORA/cr/premarks.cr
129 GORA/cr/premview.cr
465 GORA/cr/rments.cr
381 GORA/cr/schedule.cr
240 GORA/cr/secur.cr
8113 GORA/cr/site.cr
274 GORA/cr/stock.cr
343 GORA/cr/sub_uic.cr
223 GORA/cr/temp.cr
352 GORA/cr/tempa.cr
205 GORA/cr/tempb.cr
205 GORA/cr/tempecr
300 GORA/cr/tleac.cr
243 GORA/cr/tmecus.cr
272 GORA/cr/tpsn.cr
228 GORA/cr/tucha.cr
359 GORA/cr/type_fun.cr
148 GORA/cr/typecode.cr
777 GORA/cr/ucda0.cr
1178 GORA/cr/ucda1.cr
436 GORA/cr/ucde0.cr
640 GORA/cr/ucdf2.cr
673 GORA/cr/ucdf3.cr
234 GORA/cr/udc.cr
906 GORA/cr/uic.cr
1601 GORA/cr/uicom.cr

359 GORA/cr/uicfunct.cr
 344 GORA/cr/uicmajcm.cr
 1278 GORA/cr/units.cr
 465 GORA/cr/vments.cr
 0 GORA/progs/
 40 GORA/progs/GORA_GSRTSUPD.ENV
 0 GORA/siq/
 320 GORA/siq/apcond.siq
 4044 GORA/siq/aports.siq
 1203 GORA/siq/aprons.siq
 309 GORA/siq/apsurfac.siq
 399 GORA/siq/aptype.siq
 508 GORA/siq/aremarks.siq
 39196 GORA/siq/army.siq
 7379 GORA/siq/armytot.siq
 7289 GORA/siq/armyuni.siq
 8921 GORA/siq/au.siq
 14594 GORA/siq/auniques.siq
 1341 GORA/siq/clearanc.siq
 24732 GORA/siq/comments.siq
 2936 GORA/siq/deploy.siq
 1246 GORA/siq/discharg.siq
 249 GORA/siq/docid.siq
 2216 GORA/siq/geo.siq
 501 GORA/siq/gments.siq
 24738 GORA/siq/joint.siq
 5704 GORA/siq/lookup.siq
 1766 GORA/siq/meqpt.siq
 4092 GORA/siq/navy.siq
 189 GORA/siq/nocean.siq
 22347 GORA/siq/ports.siq
 5905 GORA/siq/ref.siq
 504 GORA/siq/rments.siq
 194 GORA/siq/tucha.siq
 1733 GORA/siq/ucda0.siq
 3061 GORA/siq/ucda1.siq
 542 GORA/siq/ucde0.siq
 1295 GORA/siq/ucdf2.siq
 1363 GORA/siq/ucdf3.siq
 797 GORA/siq/uic.siq
 1355 GORA/siq/units.siq
 504 GORA/siq/vments.siq
 0 GORA/syn/
 6302 GORA/syn/create_syn.sql
 3275 GORA/syn/drop_syn.sql
 0 GORA/views/
 1013 GORA/views/e_cr_drop.sql
 1957 GORA/views/e_criteria.sql

5507 GORA/views/f_cr_drop.sql
 23793 GORA/views/f_criteria.sql
 5902 GORA/views/m_cr_drop.sql
 21731 GORA/views/m_criteria.sql
 5522 GORA/views/n_cr_drop.sql
 15413 GORA/views/n_criteria.sql
 6996 GORA/views/w_cr_drop.sql
 22256 GORA/views/w_criteria.sql
 0 GORA/Scripts/
 0 GORA/Scripts/dummy
 0 GORA/data/
 0 GORA/data/dummy

GORA Oracle tablespace files are:

262288 dbfdir/gsortsdata1.dbf
 262288 dbfdir/gsortsdata2.dbf
 262288 dbfdir/gsortsdata3.dbf

B.3 Files Comprising the GUPD Segment

0 GUPD/
 0 GUPD/SegDescrip/
 7 GUPD/SegDescrip/Compat
 2614 GUPD/SegDescrip/DEINSTALL.remove_account
 439 GUPD/SegDescrip/DEINSTALL
 152 GUPD/SegDescrip/GUPD_UID_GID
 94 GUPD/SegDescrip/Hardware
 82 GUPD/SegDescrip/ModName
 661 GUPD/SegDescrip/PostInstall.1
 8074 GUPD/SegDescrip/PostInstall.setup_account
 4876 GUPD/SegDescrip/PostInstall
 525 GUPD/SegDescrip/ReleaseNotes
 112 GUPD/SegDescrip/Requires
 8 GUPD/SegDescrip/Security
 19 GUPD/SegDescrip/SegType
 13 GUPD/SegDescrip/VERSION
 114 GUPD/SegDescrip/Validated
 0 GUPD/data/
 0 GUPD/data/app-defaults/
 527 GUPD/data/app-defaults/XSortsMgr
 0 GUPD/data/dataload/
 1013 GUPD/data/dataload/MECAP.sql
 176 GUPD/data/dataload/activ.ctl
 176 GUPD/data/dataload/altyp.ctl
 152 GUPD/data/dataload/asgmt.ctl
 173 GUPD/data/dataload/avcat.ctl
 196 GUPD/data/dataload/bcmd.ctl

152 GUPD/data/dataload/coaff.ctl
25782 GUPD/data/dataload/comments.sql
237 GUPD/data/dataload/crtcd.ctl
183 GUPD/data/dataload/cscom.ctl
256 GUPD/data/dataload/cserv.ctl
221 GUPD/data/dataload/docid.ctl
181 GUPD/data/dataload/errors.ctl
168 GUPD/data/dataload/flag.ctl
174 GUPD/data/dataload/futc.ctl
1524 GUPD/data/dataload/geofile.ctl
178 GUPD/data/dataload/levels.ctl
332 GUPD/data/dataload/load_activ
185 GUPD/data/dataload/load_altyp
185 GUPD/data/dataload/load_asgmt
185 GUPD/data/dataload/load_avcat
180 GUPD/data/dataload/load_bcnd
185 GUPD/data/dataload/load_coaff
315 GUPD/data/dataload/load_crtcd
185 GUPD/data/dataload/load_cscom
185 GUPD/data/dataload/load_cserv
190 GUPD/data/dataload/load_docid
138 GUPD/data/dataload/load_errors
308 GUPD/data/dataload/load_flag
217 GUPD/data/dataload/load_futc
144 GUPD/data/dataload/load_geofile
339 GUPD/data/dataload/load_levels
312 GUPD/data/dataload/load_mecap
350 GUPD/data/dataload/load_mecf
623 GUPD/data/dataload/load_meqpt
185 GUPD/data/dataload/load_merec
185 GUPD/data/dataload/load_mjcc0
180 GUPD/data/dataload/load_mjcc
140 GUPD/data/dataload/load_nocean
309 GUPD/data/dataload/load_peqs
301 GUPD/data/dataload/load_pid
301 GUPD/data/dataload/load_pin
309 GUPD/data/dataload/load_prma
315 GUPD/data/dataload/load_reasn
193 GUPD/data/dataload/load_rptcn
302 GUPD/data/dataload/load_rsn
288 GUPD/data/dataload/load_sedy
288 GUPD/data/dataload/load_tedy
270 GUPD/data/dataload/load_tleac
316 GUPD/data/dataload/load_tmecus
313 GUPD/data/dataload/load_tpers
288 GUPD/data/dataload/load_tpsn
322 GUPD/data/dataload/load_tread
244 GUPD/data/dataload/load_tucha

307 GUPD/data/dataload/load_udc
 281 GUPD/data/dataload/load_ulc
 324 GUPD/data/dataload/load_undc4
 400 GUPD/data/dataload/load_undc
 173 GUPD/data/dataload/mecap.ctl
 167 GUPD/data/dataload/mecl.ctl
 914 GUPD/data/dataload/meqpt.ctl
 633 GUPD/data/dataload/meqpt_down.sql
 2650 GUPD/data/dataload/meqptavl.sql
 204 GUPD/data/dataload/merec.ctl
 178 GUPD/data/dataload/mjcc.ctl
 201 GUPD/data/dataload/mjcc0.ctl
 446 GUPD/data/dataload/move.ctl
 182 GUPD/data/dataload/nocean.ctl
 169 GUPD/data/dataload/peqs.ctl
 142 GUPD/data/dataload/pid.ctl
 142 GUPD/data/dataload/pin.ctl
 293 GUPD/data/dataload/plad.ctl.sun
 147 GUPD/data/dataload/prma.ctl
 175 GUPD/data/dataload/reason.ctl
 183 GUPD/data/dataload/rptcn.ctl
 163 GUPD/data/dataload/rsn.ctl
 169 GUPD/data/dataload/sedy.ctl
 169 GUPD/data/dataload/tedy.ctl
 175 GUPD/data/dataload/tleac.ctl
 177 GUPD/data/dataload/tmecus.ctl
 202 GUPD/data/dataload/tpers.ctl
 198 GUPD/data/dataload/tpsn.ctl
 174 GUPD/data/dataload/tread.ctl
 1230 GUPD/data/dataload/trunc_sorts.sql
 163 GUPD/data/dataload/udc.ctl
 163 GUPD/data/dataload/ulc.ctl
 196 GUPD/data/dataload/undc.ctl
 182 GUPD/data/dataload/undc4.ctl
 218 GUPD/data/dataload/warning.sql
 0 GUPD/data/dataload/data/
 35667 GUPD/data/dataload/data/activ.tab
 2408 GUPD/data/dataload/data/altyp.tab
 306 GUPD/data/dataload/data/asgmttab.tab
 537 GUPD/data/dataload/data/avcat.tab
 114 GUPD/data/dataload/data/bcmdtab.tab
 726 GUPD/data/dataload/data/coafftab.tab
 9984 GUPD/data/dataload/data/crtcdtab.tab
 476 GUPD/data/dataload/data/cscomtab.tab
 520 GUPD/data/dataload/data/cservtab.tab
 30820 GUPD/data/dataload/data/docidtab.tab
 25746 GUPD/data/dataload/data/errljtab.tab
 279 GUPD/data/dataload/data/flag.tab

11683 GUPD/data/dataload/data/futctab.tab
 8677233 GUPD/data/dataload/data/geo.seq
 424 GUPD/data/dataload/data/levels.tab
 443 GUPD/data/dataload/data/mecap.tab
 6001 GUPD/data/dataload/data/mecl.tab
 107328 GUPD/data/dataload/data/meqpt.seq
 1280 GUPD/data/dataload/data/merectab.tab
 1581 GUPD/data/dataload/data/mjcc0tab.tab
 960 GUPD/data/dataload/data/mjcc3.tab
 930 GUPD/data/dataload/data/mjcctab.tab
 402 GUPD/data/dataload/data/rsn.tab
 342 GUPD/data/dataload/data/nocean.tab
 534 GUPD/data/dataload/data/peqs.tab
 24 GUPD/data/dataload/data/pidtab.tab
 48 GUPD/data/dataload/data/pintab.tab
 84 GUPD/data/dataload/data/prmatab.tab
 16873 GUPD/data/dataload/data/reasn.tab
 403 GUPD/data/dataload/data/rptcntab.tab
 48 GUPD/data/dataload/data/secur.tab
 544 GUPD/data/dataload/data/sedy.tab
 26 GUPD/data/dataload/data/sitetab.tab
 361 GUPD/data/dataload/data/tesy.tab
 74 GUPD/data/dataload/data/tleac.tab
 482 GUPD/data/dataload/data/tmecus.tab
 1022 GUPD/data/dataload/data/tperstab.tab
 329453 GUPD/data/dataload/data/tpsn.tab
 4540 GUPD/data/dataload/data/tread.tab
 641415 GUPD/data/dataload/data/tucha.seq
 1368 GUPD/data/dataload/data/udc.tab
 2688 GUPD/data/dataload/data/ulc.tab
 215 GUPD/data/dataload/data/undc4tab.tab
 301 GUPD/data/dataload/data/undctab.tab
 0 GUPD/data/datfiles/
 81 GUPD/data/datfiles/routctrl.dat
 0 GUPD/data/log/
 0 GUPD/data/log/dummy
 0 GUPD/data/scripts/
 313 GUPD/data/scripts/auto.amhs
 481 GUPD/data/scripts/backup.comp
 6409 GUPD/data/scripts/cleanup.scr
 280 GUPD/data/scripts/copyfiles
 231 GUPD/data/scripts/cron.get
 1329 GUPD/data/scripts/getmsg.amhs
 1133 GUPD/data/scripts/jopesupd.sql
 1421 GUPD/data/scripts/putmsg.amhs
 1955 GUPD/data/scripts/reload_oracle
 31038 GUPD/data/scripts/sortsupd.amhs
 10470 GUPD/data/scripts/sortsupd

182 GUPD/data/scripts/unload_all
 0 GUPD/data/siteload/
 0 GUPD/data/siteload/data/
 4328 GUPD/data/siteload/aports.ctl
 6031 GUPD/data/siteload/auansi.ctl
 6032 GUPD/data/siteload/auascii.ctl
 470 GUPD/data/siteload/gments.ctl
 141 GUPD/data/siteload/gments_con.sql
 90 GUPD/data/siteload/gments_con_del.sql
 326 GUPD/data/siteload/load_aports
 315 GUPD/data/siteload/load_auniques_asci
 315 GUPD/data/siteload/load_auniques
 331 GUPD/data/siteload/load_gments
 514 GUPD/data/siteload/load_ports
 333 GUPD/data/siteload/load_rments
 2006 GUPD/data/siteload/load_site
 439 GUPD/data/siteload/load_ucd
 333 GUPD/data/siteload/load_vments
 19385 GUPD/data/siteload/ports.ctl
 482 GUPD/data/siteload/rments.ctl
 141 GUPD/data/siteload/rments_con.sql
 90 GUPD/data/siteload/rments_con_del.sql
 8113 GUPD/data/siteload/site.cr
 696 GUPD/data/siteload/site.ctl
 526 GUPD/data/siteload/tempa.ctl
 4054 GUPD/data/siteload/ucd.ctl
 606 GUPD/data/siteload/ucd_con.sql
 442 GUPD/data/siteload/ucd_con_del.sql
 1359 GUPD/data/siteload/ucdbad.ctl
 220 GUPD/data/siteload/ucdclass.sql
 473 GUPD/data/siteload/vments.ctl
 141 GUPD/data/siteload/vments_con.sql
 90 GUPD/data/siteload/vments_con_del.sql
 0 GUPD/data/xsm/
 80787 GUPD/data/xsm/AFP_55-15.ASC
 243567 GUPD/data/xsm/DB_SPEC.ASC
 113 GUPD/data/xsm/ERROR_HOLD.ASC
 859 GUPD/data/xsm/EXAMPLE.ASC
 2127 GUPD/data/xsm/FRAS07.sql
 100 GUPD/data/xsm/LOGS.ASC
 786 GUPD/data/xsm/MONITOR.ASC
 4812 GUPD/data/xsm/MTF_MESSAGE.ASC
 2422 GUPD/data/xsm/MTF_RETRAN.ASC
 7203 GUPD/data/xsm/ORUIC.ASC
 78 GUPD/data/xsm/OneErrTran.rpt
 116 GUPD/data/xsm/OneErrhold.rpt
 878 GUPD/data/xsm/OneMSG.rpt
 340 GUPD/data/xsm/OneORUIC.rpt

172 GUPD/data/xsm/SERV_TXT_FILES
 82986 GUPD/data/xsm/SORTSREP.ASC
 10 GUPD/data/xsm/FRAALL.lst
 1330 GUPD/data/xsm/FRAS01.sql
 1219 GUPD/data/xsm/FRAS02.sql
 1552 GUPD/data/xsm/FRAS03.sql
 5783 GUPD/data/xsm/FRAS04.sql
 8734 GUPD/data/xsm/FRAS05.sql
 2281 GUPD/data/xsm/FRAS06.sql
 1648 GUPD/data/xsm/FRAS08.sql
 686 GUPD/data/xsm/FRAS_REPORTS.ASC
 4729 GUPD/data/xsm/MTF_RETRAN2.asc
 10 GUPD/data/xsm/FRAS01.lst
 10 GUPD/data/xsm/FRAS02.lst
 10 GUPD/data/xsm/FRAS03.lst
 36936 GUPD/data/xsm/report.txt
 924 GUPD/data/xsm/retran.tmp
 10 GUPD/data/xsm/FRAS04.lst
 10 GUPD/data/xsm/FRAS05.lst
 592712 GUPD/data/xsm/xsm
 74796 GUPD/data/xsm/ms
 21268 GUPD/data/xsm/logunix
 0 GUPD/data/xsm/FRAS.bat
 10 GUPD/data/xsm/FRAS06.lst
 10 GUPD/data/xsm/FRAS07.lst
 10 GUPD/data/xsm/FRAS08.lst
 710 GUPD/data/xsm/gsrtsupd.fig
 29 GUPD/data/xsm/xsm.out
 1177 GUPD/data/gsrtsupd.env
 2392 GUPD/data/run_gsrtsupd.amhs
 1290 GUPD/data/run_gsrtsupd
 699 GUPD/data/run_scp
 84 GUPD/data/run_xsm
 39 GUPD/data/.oraclogin
 0 GUPD/data/source/
 2976112 GUPD/data/source/sb20
 3967668 GUPD/data/source/sb50mtf
 516944 GUPD/data/source/sb51mtf
 3101296 GUPD/data/source/sb21
 3123872 GUPD/data/source/sb23
 2643544 GUPD/data/source/sb24
 3304496 GUPD/data/source/remark_ck
 3458720 GUPD/data/source/multload
 3447540 GUPD/data/source/build_mtf
 18084 GUPD/data/source/addnewline
 2599388 GUPD/data/source/loadgeo
 3097852 GUPD/data/source/countrec
 2983984 GUPD/data/source/sj01

27012 GUPD/data/source/getdate
 10160 GUPD/data/source/packfile
 18760 GUPD/data/source/fixho
 2612252 GUPD/data/source/ramp
 2604684 GUPD/data/source/errmtf
 15472 GUPD/data/source/stripuic
 3041808 GUPD/data/source/jsoc
 2979032 GUPD/data/source/jopesupd
 3055272 GUPD/data/source/flat_uic
 2541564 GUPD/data/source/shistory
 2543564 GUPD/data/source/sortshis
 2598088 GUPD/data/source/loadtca
 3021864 GUPD/data/source/fixdb
 2561872 GUPD/data/source/pre-ramp
 3019004 GUPD/data/source/afedits
 15564 GUPD/data/source/conv6980
 2112292 GUPD/data/source/blddistr
 617208 GUPD/data/source/errhldmsg
 2943352 GUPD/data/source/unload
 45756 GUPD/data/source/err_matrix
 12372 GUPD/data/source/count_src
 16192 GUPD/data/source/dropuic
 21936 GUPD/data/source/autodbr
 12828 GUPD/data/source/getdoc
 12848 GUPD/data/source/getdoc1
 21332 GUPD/data/source/fixaport
 20668 GUPD/data/source/fixports
 20688 GUPD/data/source/fixtucha
 11404 GUPD/data/source/fixfgeo
 3027376 GUPD/data/source/ecac
 22240 GUPD/data/source/splitmsg
 13184 GUPD/data/source/dupes
 0 GUPD/data/ramp/
 0 GUPD/data/ramp/dummy
 0 GUPD/data/oruic/
 0 GUPD/data/oruic/dummy
 0 GUPD/data/sm/
 0 GUPD/data/comms/
 0 GUPD/data/comms/dummy
 0 GUPD/progs/
 2392 GUPD/progs/GUPD_RUN_GSORTSUPD
 0 GUPD/Scripts/
 0 GUPD/Scripts/dummy

B.4 Files Comprising the GWORLD Segment

0 GWORLD/
 0 GWORLD/SegDescrip/

364 GWORLD/SegDescrip/DEINSTALL
 88 GWORLD/SegDescrip/Data
 32 GWORLD/SegDescrip/Hardware
 79 GWORLD/SegDescrip/ModName
 1025 GWORLD/SegDescrip/PostInstall.1
 822 GWORLD/SegDescrip/PostInstall
 346 GWORLD/SegDescrip/ReleaseNotes
 35 GWORLD/SegDescrip/Requires
 8 GWORLD/SegDescrip/Security
 5 GWORLD/SegDescrip/SegType
 13 GWORLD/SegDescrip/VERSION
 113 GWORLD/SegDescrip/Validated
 0 GWORLD/world/
 671872 GWORLD/world/noamer.ae.end.all
 44284 GWORLD/world/noamer.cl.edg.all
 1244558 GWORLD/world/noamer.cl.end.all
 4278 GWORLD/world/noamer.cl.fac.all
 36058 GWORLD/world/noamer.cl.txt.all
 31338 GWORLD/world/noamer.dn.edg.canals-etc
 29636158 GWORLD/world/noamer.dn.edg.shores
 31055718 GWORLD/world/noamer.dn.edg.streams
 25895836 GWORLD/world/noamer.dn.fac.inlnd-wtr-perennial
 40365120 GWORLD/world/noamer.hy.edg.all
 3446 GWORLD/world/noamer.hy.fac.-sealvl
 17310242 GWORLD/world/noamer.hy.fac.1-3k
 259694 GWORLD/world/noamer.hy.fac.11-k
 18003370 GWORLD/world/noamer.hy.fac.3-7k
 4266562 GWORLD/world/noamer.hy.fac.7-11k
 354228 GWORLD/world/noamer.hy.fac.none
 252520 GWORLD/world/noamer.hy.fac.no-1000ft-intrvl
 533 GWORLD/world/noamer.lc.txt.diacrit
 170596 GWORLD/world/noamer.po.edg.coastal-closure
 4854462 GWORLD/world/noamer.po.edg.standard
 0 GWORLD/world/noamer.po.edg.standardn link to GWORLD/world/noamer.po.edg.standard
 2373512 GWORLD/world/noamer.po.edg.stnd-closure
 2114831 GWORLD/world/noamer.po.end.small-islands
 7764 GWORLD/world/noamer.po.fac.alabama
 324020 GWORLD/world/noamer.po.fac.alaska
 9754 GWORLD/world/noamer.po.fac.arizona
 6324 GWORLD/world/noamer.po.fac.arkansas
 21782 GWORLD/world/noamer.po.fac.california
 8054 GWORLD/world/noamer.po.fac.colorado
 2570 GWORLD/world/noamer.po.fac.connecticut
 2786 GWORLD/world/noamer.po.fac.delaware
 39270 GWORLD/world/noamer.po.fac.florida
 8316 GWORLD/world/noamer.po.fac.georgia
 7230 GWORLD/world/noamer.po.fac.hawaii
 10318 GWORLD/world/noamer.po.fac.idaho

8392 GWORLD/world/noamer.po.fac.illinois
 6860 GWORLD/world/noamer.po.fac.indiana
 5486 GWORLD/world/noamer.po.fac.iowa
 6518 GWORLD/world/noamer.po.fac.kansas
 6668 GWORLD/world/noamer.po.fac.kentucky
 3698960 GWORLD/world/noamer.po.fac.land
 45590 GWORLD/world/noamer.po.fac.louisiana
 22906 GWORLD/world/noamer.po.fac.maine
 15898 GWORLD/world/noamer.po.fac.maryland
 8926 GWORLD/world/noamer.po.fac.massachusetts
 25216 GWORLD/world/noamer.po.fac.michigan
 12218 GWORLD/world/noamer.po.fac.minnesota
 6786 GWORLD/world/noamer.po.fac.mississippi
 8414 GWORLD/world/noamer.po.fac.missouri
 12776 GWORLD/world/noamer.po.fac.montana
 5924 GWORLD/world/noamer.po.fac.nebraska
 9592 GWORLD/world/noamer.po.fac.nevada
 3010 GWORLD/world/noamer.po.fac.new-hampshire
 7000 GWORLD/world/noamer.po.fac.new-jersey
 8228 GWORLD/world/noamer.po.fac.new-mexico
 18184 GWORLD/world/noamer.po.fac.new-york
 18456 GWORLD/world/noamer.po.fac.north-carolina
 6398 GWORLD/world/noamer.po.fac.north-dakota
 7244 GWORLD/world/noamer.po.fac.ohio
 9684 GWORLD/world/noamer.po.fac.oklahoma
 1536500 GWORLD/world/noamer.po.fac.open-ocean
 11538 GWORLD/world/noamer.po.fac.oregon
 1046502 GWORLD/world/noamer.po.fac.pack-ice
 8324 GWORLD/world/noamer.po.fac.pennsylvania
 399966 GWORLD/world/noamer.po.fac.polar-ice
 3050 GWORLD/world/noamer.po.fac.rhode-island
 10858 GWORLD/world/noamer.po.fac.south-carolina
 8582 GWORLD/world/noamer.po.fac.south-dakota
 6038 GWORLD/world/noamer.po.fac.tennessee
 40978 GWORLD/world/noamer.po.fac.texas
 32 GWORLD/world/noamer.po.fac.uscentcom
 32 GWORLD/world/noamer.po.fac.useucom
 2373430 GWORLD/world/noamer.po.fac.uslantcom
 729812 GWORLD/world/noamer.po.fac.uslantcom-land
 2373430 GWORLD/world/noamer.po.fac.uslantcom-ocean
 32 GWORLD/world/noamer.po.fac.uspacom
 8072 GWORLD/world/noamer.po.fac.utah
 141562 GWORLD/world/noamer.po.fac.ussouthcom
 2558 GWORLD/world/noamer.po.fac.vermont
 17212 GWORLD/world/noamer.po.fac.virginia
 15278 GWORLD/world/noamer.po.fac.washington
 7084 GWORLD/world/noamer.po.fac.west-virginia
 12846 GWORLD/world/noamer.po.fac.wisconsin

8284 GWORLD/world/noamer.po.fac.wyoming
 836013 GWORLD/world/noamer.po.txt.all
 1120892 GWORLD/world/noamer.pp.edg.all
 3515472 GWORLD/world/noamer.pp.end.all
 1093000 GWORLD/world/noamer.pp.fac.all
 1453446 GWORLD/world/noamer.pp.txt.all
 1571106 GWORLD/world/noamer.rd.edg.connctrs
 1274518 GWORLD/world/noamer.rd.edg.dual
 7510846 GWORLD/world/noamer.rd.edg.prim-secnd
 857808 GWORLD/world/noamer.rd.edg.trail-etc
 911482 GWORLD/world/noamer.rr.edg.connctrs
 212 GWORLD/world/noamer.rr.edg.light
 250058 GWORLD/world/noamer.rr.edg.multi
 2106656 GWORLD/world/noamer.rr.edg.single
 441330 GWORLD/world/soamafr.ae.end.all
 112110 GWORLD/world/soamafr.dn.edg.canals-etc
 11652816 GWORLD/world/soamafr.dn.edg.shores
 33677278 GWORLD/world/soamafr.dn.edg.streams
 7070148 GWORLD/world/soamafr.dn.fac.inlnd-wtr-perennial
 43585928 GWORLD/world/soamafr.hy.edg.all
 73730 GWORLD/world/soamafr.hy.fac.-sealvl
 18377790 GWORLD/world/soamafr.hy.fac.1-3k
 2869646 GWORLD/world/soamafr.hy.fac.11-k
 20246256 GWORLD/world/soamafr.hy.fac.3-7k
 5351352 GWORLD/world/soamafr.hy.fac.7-11k
 440878 GWORLD/world/soamafr.hy.fac.no-1000ft-intrvl
 628316 GWORLD/world/soamafr.hy.fac.none
 310 GWORLD/world/soamafr.hy.fac.uncontoured-etc
 113946 GWORLD/world/soamafr.po.edg.coastal-closure
 10544 GWORLD/world/soamafr.po.edg.intlbnd-df
 605900 GWORLD/world/soamafr.po.edg.intlbnd-dj
 3584656 GWORLD/world/soamafr.po.edg.standard
 0 GWORLD/world/soamafr.po.edg.standardn link to GWORLD/world/soamafr.po.edg.standard
 1057340 GWORLD/world/soamafr.po.end.small-islands
 3627912 GWORLD/world/soamafr.po.fac.land
 2764686 GWORLD/world/soamafr.po.fac.open-ocean
 210352 GWORLD/world/soamafr.po.fac.pack-ice
 24302 GWORLD/world/soamafr.po.fac.polar-ice
 193904 GWORLD/world/soamafr.po.fac.shelf-ice
 407342 GWORLD/world/soamafr.po.fac.uscentcom
 845480 GWORLD/world/soamafr.po.fac.useucom
 1455852 GWORLD/world/soamafr.po.fac.uslantcom
 218 GWORLD/world/soamafr.po.fac.uslantcom-land
 1455852 GWORLD/world/soamafr.po.fac.uslantcom-ocean
 32 GWORLD/world/soamafr.po.fac.uspacom
 1141340 GWORLD/world/soamafr.po.fac.ussouthcom
 755659 GWORLD/world/soamafr.po.txt.all
 826886 GWORLD/world/soamafr.pp.edg.all

9128800 GWORLD/world/soamafr.pp.end.all
 813962 GWORLD/world/soamafr.pp.fac.all
 2948259 GWORLD/world/soamafr.pp.txt.all
 425464 GWORLD/world/soamafr.rd.edg.dual
 17315678 GWORLD/world/soamafr.rd.edg.prim-secnd
 4305926 GWORLD/world/soamafr.rd.edg.trail-etc
 387236 GWORLD/world/soamafr.rr.edg.connctrs
 700 GWORLD/world/soamafr.rr.edg.light
 1748266 GWORLD/world/soamafr.rr.edg.single
 181706 GWORLD/world/sasaus.dn.edg.canals-etc
 12066226 GWORLD/world/sasaus.dn.edg.shores
 31465250 GWORLD/world/sasaus.dn.edg.streams
 7984102 GWORLD/world/sasaus.dn.fac.inlnd-wtr-perennial
 52706126 GWORLD/world/sasaus.hy.edg.all
 143804 GWORLD/world/sasaus.hy.fac.-sealvl
 19514018 GWORLD/world/sasaus.hy.fac.1-3k
 10020592 GWORLD/world/sasaus.hy.fac.11-k
 19513956 GWORLD/world/sasaus.hy.fac.3-7k
 7173680 GWORLD/world/sasaus.hy.fac.7-11k
 315192 GWORLD/world/sasaus.hy.fac.none
 3906694 GWORLD/world/sasaus.po.edg.standard
 0 GWORLD/world/sasaus.po.edg.standardn link to GWORLD/world/sasaus.po.edg.standard
 1628342 GWORLD/world/sasaus.po.end.small-islands
 3297678 GWORLD/world/sasaus.po.fac.land
 2799572 GWORLD/world/sasaus.po.fac.open-ocean
 26474 GWORLD/world/sasaus.po.fac.pack-ice
 323266 GWORLD/world/sasaus.po.fac.uscentcom
 32 GWORLD/world/sasaus.po.fac.useucom
 104430 GWORLD/world/sasaus.po.fac.uslantcom
 32 GWORLD/world/sasaus.po.fac.uslantcom-land
 104430 GWORLD/world/sasaus.po.fac.uslantcom-ocean
 2494342 GWORLD/world/sasaus.po.fac.uspacom
 32 GWORLD/world/sasaus.po.fac.ussouthcom
 1194813 GWORLD/world/sasaus.po.txt.all
 1683454 GWORLD/world/sasaus.pp.edg.all
 9676672 GWORLD/world/sasaus.pp.end.all
 1640930 GWORLD/world/sasaus.pp.fac.all
 2902356 GWORLD/world/sasaus.pp.txt.all
 156082 GWORLD/world/sasaus.rd.edg.dual
 17398328 GWORLD/world/sasaus.rd.edg.prim-secnd
 2121632 GWORLD/world/sasaus.rd.edg.trail-etc
 541952 GWORLD/world/sasaus.rr.edg.connctrs
 273950 GWORLD/world/sasaus.rr.edg.multi
 1765546 GWORLD/world/sasaus.rr.edg.single
 110186 GWORLD/world/eurnasia.dn.edg.canals-etc
 14198926 GWORLD/world/eurnasia.dn.edg.shores
 27261418 GWORLD/world/eurnasia.dn.edg.streams
 14593708 GWORLD/world/eurnasia.dn.fac.inland-water

47046264 GWORLD/world/eurnasia.hy.edg.all
 125502 GWORLD/world/eurnasia.hy.fac.-sealvl
 21911190 GWORLD/world/eurnasia.hy.fac.1-3k
 2315450 GWORLD/world/eurnasia.hy.fac.11-k
 21371042 GWORLD/world/eurnasia.hy.fac.3-7k
 4994420 GWORLD/world/eurnasia.hy.fac.7-11k
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 1399586 GWORLD/world/eurnasia.po.end.small-islands
 12988 GWORLD/world/eurnasia.po.fac.TX
 2748950 GWORLD/world/eurnasia.po.fac.land
 970112 GWORLD/world/eurnasia.po.fac.open-ocean
 678834 GWORLD/world/eurnasia.po.fac.pack-ice
 348254 GWORLD/world/eurnasia.po.fac.polar-ice
 32 GWORLD/world/eurnasia.po.fac.shelf-ice
 45752 GWORLD/world/eurnasia.po.fac.uscentcom
 1091826 GWORLD/world/eurnasia.po.fac.useucom
 366380 GWORLD/world/eurnasia.po.fac.uslantcom
 52824 GWORLD/world/eurnasia.po.fac.uslantcom-land
 366380 GWORLD/world/eurnasia.po.fac.uslantcom-ocean
 162136 GWORLD/world/eurnasia.po.fac.uspacom
 32 GWORLD/world/eurnasia.po.fac.ussouthcom
 502341 GWORLD/world/eurnasia.po.txt.all
 2630386 GWORLD/world/eurnasia.pp.edg.all
 2500438 GWORLD/world/eurnasia.pp.fac.all
 1881279 GWORLD/world/eurnasia.pp.txt.all
 2412010 GWORLD/world/eurnasia.rd.edg.connctrs
 657732 GWORLD/world/eurnasia.rd.edg.dual
 13540292 GWORLD/world/eurnasia.rd.edg.prim-secnd
 624906 GWORLD/world/eurnasia.rd.edg.trail-etc
 1314656 GWORLD/world/eurnasia.rr.edg.connctrs
 256 GWORLD/world/eurnasia.rr.edg.light
 979038 GWORLD/world/eurnasia.rr.edg.multi
 3380298 GWORLD/world/eurnasia.rr.edg.single
 0 GWORLD/dummy/

B.5 Files Comprising the GSORTC Segment

0 GSORTSC/
 0 GSORTSC/SegDescrip/
 34 GSORTSC/SegDescrip/DEINSTALL
 32 GSORTSC/SegDescrip/Hardware
 76 GSORTSC/SegDescrip/ModName
 2090 GSORTSC/SegDescrip/PostInstall.set_servername
 299 GSORTSC/SegDescrip/PostInstall
 227 GSORTSC/SegDescrip/ReleaseNotes
 35 GSORTSC/SegDescrip/Requires
 8 GSORTSC/SegDescrip/Security

9 GSORTSC/SegDescrip/SegType
13 GSORTSC/SegDescrip/VERSION
106 GSORTSC/SegDescrip/Validated
0 GSORTSC/bitmap/
1871 GSORTSC/bitmap/gsorts.img
0 GSORTSC/data/
0 GSORTSC/data/Profiles/
255 GSORTSC/data/Profiles/LaunchDesc.GSORTSC
69 GSORTSC/data/Profiles/LaunchList.GSORTSC
82 GSORTSC/data/Profiles/Profiles.GSORTSC
0 GSORTSC/fonts/
138 GSORTSC/fonts/fonts.dir
7871 GSORTSC/fonts/mwssym12x12.bdf
8951 GSORTSC/fonts/mwssym16x16.bdf
12191 GSORTSC/fonts/mwssym20x20.bdf
13703 GSORTSC/fonts/mwssym24x24.bdf
5757 GSORTSC/fonts/mwssym8x8.bdf
0 GSORTSC/progs/
669 GSORTSC/progs/GSORTC_run_GSORTS
25 GSORTSC/servername

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